



# Amphenol

ENTERTAINMENT INTERCONNECT CATALOGUE

Amphenol Australia Pty Ltd



## Amphenol Australia Pty. Ltd.

Amphenol Australia's head office is based in Melbourne, Victoria and is the Sales, Marketing and Engineering centre of excellence for an extensive range of professional connector and cabling products. Satellite facilities of Amphenol Australia also exist in Colorado and Los Angeles, in the USA as well as Shenzhen, China.

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

The Amphenol Audio international brand name was launched by Amphenol Australia in 2006 and represents the flag ship of one of the company's main core businesses and specialist product ranges. The company has been producing products for the pro-audio industry for over fifty years. Since the development of our XLR AC Series connectors, we have continued to provide our customers with exacting quality in an increasingly competitive environment.

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

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

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## ISO VIEW OF AX SERIES XLR CABLE CONNECTOR

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.



## AX SERIES XLR CABLE CONNECTORS

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

### Features

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

### Options

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

### Ordering Codes

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

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

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


**Features:**

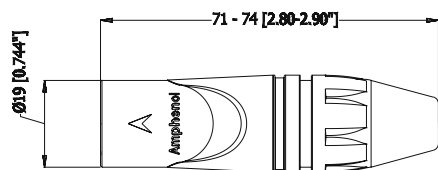
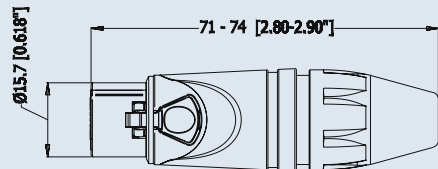
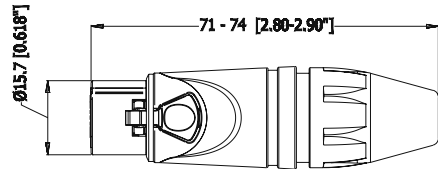
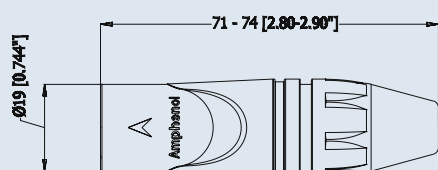
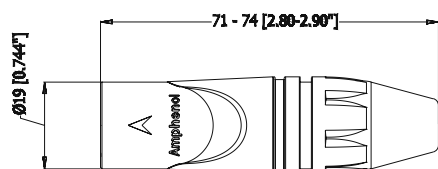
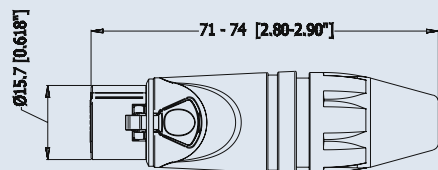
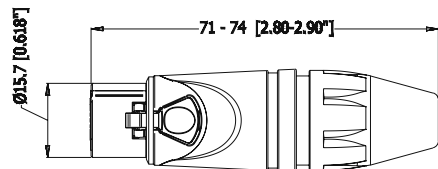
- Unique Australian designed shell and housing.
- Ergonomic stylish sleeve design for improved grip.
- Oversized latch lever preserves your thumb.
- Leading first mate last break pin 1 on socket connectors.
- Chuck style cable clamp to suit 3mm - 8mm (0.118" - 0.314") cable O.D. with integrated split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

**Options:**

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

**Part Number Breakdown: Page 6**
**Specifications: Page 9**
**Assembly Instructions: Page 7 & 8**

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

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



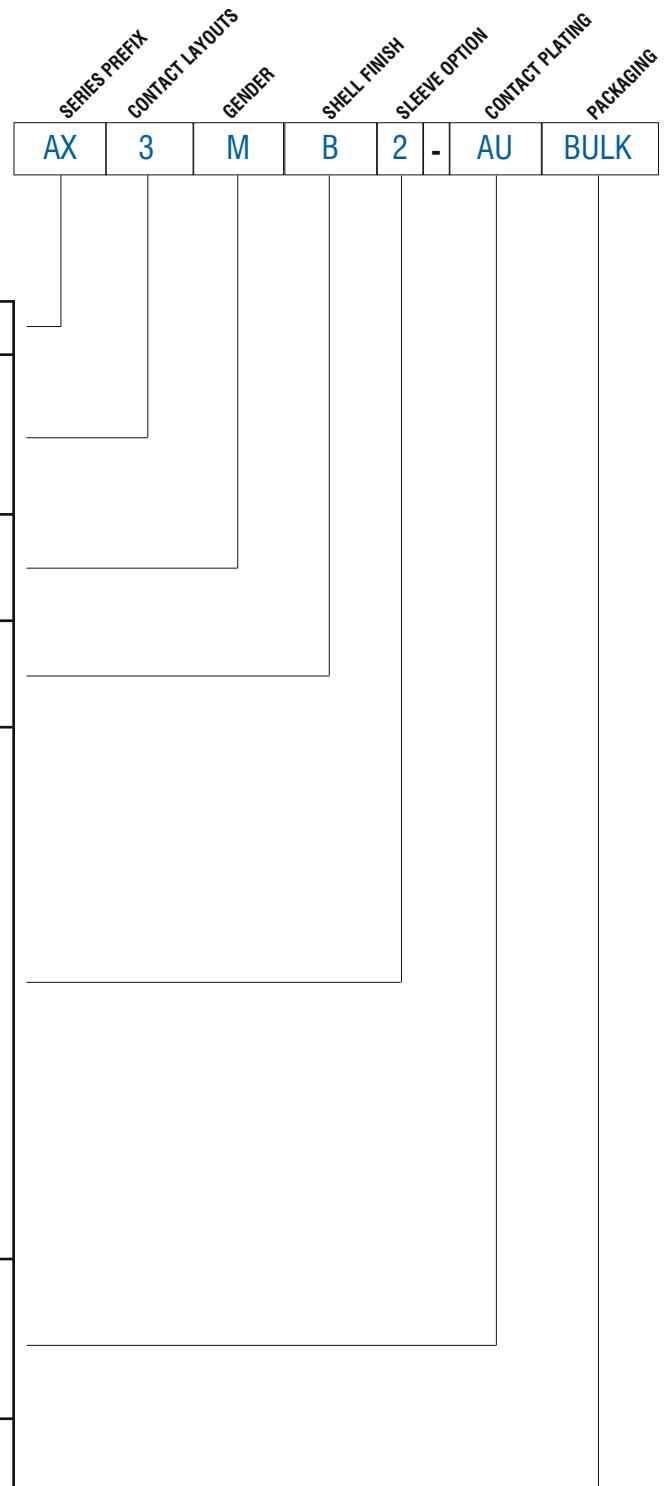


## PART NUMBER BREAKDOWN

### METAL SHELL TYPE - SOLDER

E. G. **AX3MB2-AU BULK**  
**AX** (Series Prefix), **3** contacts, **Male**, **Black** Finish,  
**2** (Red Sleeve)- **AU** (Gold Plated Contacts), **Bulk** Packaged.

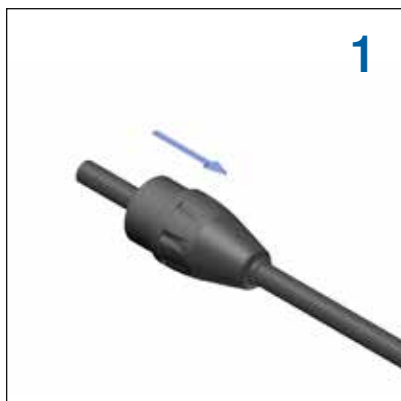
|                        |       |   |                                                             |
|------------------------|-------|---|-------------------------------------------------------------|
| <b>SERIES PREFIX</b>   | AX    | = | Series Prefix                                              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



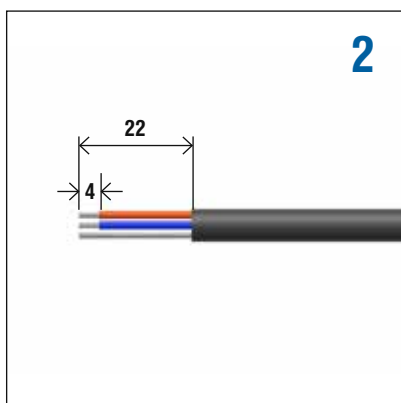


## PI539 ASSEMBLY INSTRUCTIONS

AX SERIES FEMALE XLR  
CABLE CONNECTOR



Slide the nut (Backshell) onto the cable



Strip the cable



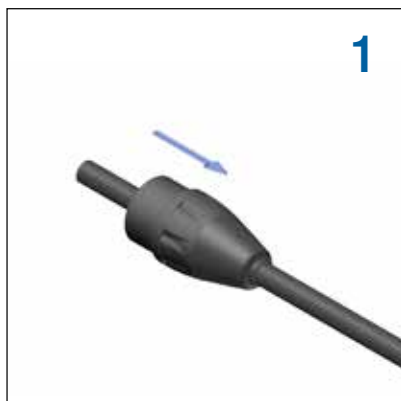
Push back the insert only enough to expose the solder buckets. It is not necessary to remove the insert. Solder the wires to the contacts.



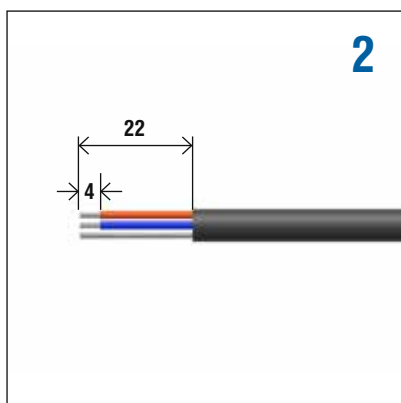
Install the cable clamp, flush to the insert making sure to align the top slot with the spring. Then push the insert & cable clamp together into the shell.



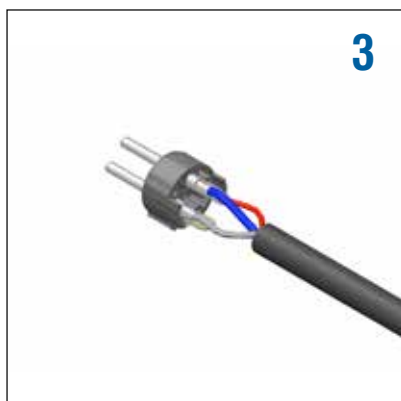
Thread the nut (Backshell) onto the shell (Torque 0.8Nm - 1.2Nm) to activate the cable clamp and close the connector assembly.



Slide the nut (Backshell) onto the cable



Strip the cable



Solder the wires to the contacts.



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



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

## PI538 ASSEMBLY INSTRUCTIONS

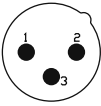
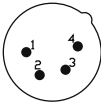
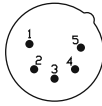
AX SERIES MALE XLR  
CABLE CONNECTOR



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

## STANDARD DATA AX SERIES CABLE CONNECTORS



|                                   |                                                            | VALUE                                                                             |                                                                                     |                                                                                     |
|-----------------------------------|------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>GENERAL CHARACTERISTICS</b>    | Number of contacts                                         | 3                                                                                 | 4                                                                                   | 5                                                                                   |
|                                   | AX Series Contact Arrangements (Front view of pin inserts) |  |  |  |
|                                   | Termination                                                | SOLDER                                                                            |                                                                                     |                                                                                     |
|                                   | Max. Wire Gauge - Stranded wire: Solder                    | 14AWG                                                                             | 16AWG                                                                               | 18AWG                                                                               |
|                                   | Flammability rating of insulator plastics and housings     | UL94V-0                                                                           |                                                                                     |                                                                                     |
|                                   | Environmental                                              | Complies with EU RoHS 2 Directive 2011/65/EU                                      |                                                                                     |                                                                                     |
| <b>ELECTRICAL CHARACTERISTICS</b> | Service Voltage RMS                                        | 133V <sup>1)</sup>                                                                |                                                                                     |                                                                                     |
|                                   | Test Voltage AC RMS                                        | 1400V                                                                             |                                                                                     |                                                                                     |
|                                   | Current carrying capacity: Solder                          | 15A                                                                               | 10A                                                                                 | 7.5A                                                                                |
|                                   | Typical Contact Resistance                                 | ≤3m Ω                                                                             |                                                                                     |                                                                                     |
|                                   | Insulation Resistance                                      | ≥1G Ω                                                                             |                                                                                     |                                                                                     |
| <b>CLIMATIC CHARACTERISTICS</b>   | Protection Class                                           | IP40                                                                              |                                                                                     |                                                                                     |
|                                   | Operating Temperature                                      | -25 °C to +75 °C (-13°F to +167°F)                                                |                                                                                     |                                                                                     |
| <b>MECHANICAL CHARACTERISTICS</b> | Insertion and Withdrawal force                             | ≥10N - ≤30N                                                                       |                                                                                     |                                                                                     |
|                                   | Weight <sup>2)</sup>                                       | 31g<br>(0.068lb)                                                                  | 33g<br>(0.073lb)                                                                    | 33g<br>(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<br>Shell finish                    | Diecast Zinc Alloy<br>Satin nickel or Black                                       |                                                                                     |                                                                                     |
|                                   | Insulators                                                 | UL94V-0 PA66, 30% Glass Filled                                                    |                                                                                     |                                                                                     |
|                                   | Boot / Backshell<br>Finish                                 | UL94V-0 Noryl N190 / Santoprene<br>Black, other colours available - see page 80   |                                                                                     |                                                                                     |
|                                   | Cable clamp                                                | Noryl N190                                                                        |                                                                                     |                                                                                     |
|                                   | Sleeve                                                     | Noryl N190                                                                        |                                                                                     |                                                                                     |
|                                   | Male Contact<br>Machined - Solder / Plating                | Brass / Silver or Gold (Optional)                                                 |                                                                                     |                                                                                     |
|                                   | Female Contact<br>Stamped - Solder / Plating               | Phosphor Bronze / Tin or Gold (Optional)                                          |                                                                                     |                                                                                     |

Rev 3 - 03/2013

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

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



## AC SERIES XLR CABLE CONNECTORS

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

### Features

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

### Options

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

### Jaws Cable Clamp Options



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



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

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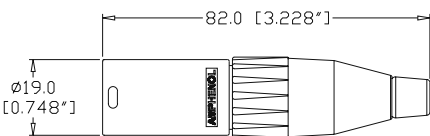
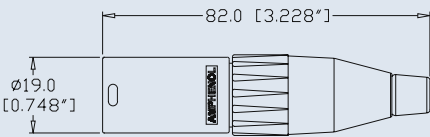
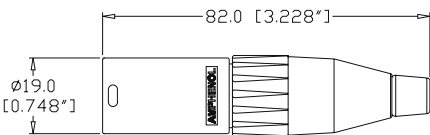
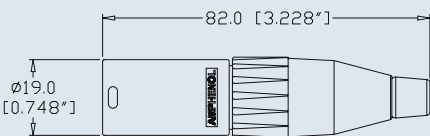
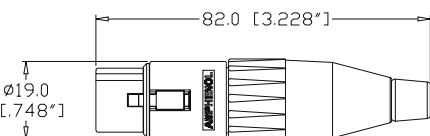
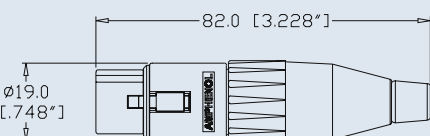
## Features:

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

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

**Part Number Breakdown: Page 14**

**Specifications: Page 16**

| PRODUCT - FIGURE                                                                    | DRAWING<br>Dimensions in mm (inches)                                                                                  | DESCRIPTION                                                          | VARIATIONS           | PART NUMBER |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------|-------------|
|    |    | XLR 3 pole male, Machined contacts, Nickel Finish, Jaws cable clamp  | Standard             | AC3MM       |
|                                                                                     |                                                                                                                       |                                                                      | Gold Plated Contacts | AC3MM-AU    |
|                                                                                     |                                                                                                                       |                                                                      | Large Cable Clamp    | AC3MMJ      |
|                                                                                     |                                                                                                                       |                                                                      | Bulk Pack            | AC3MM BULK  |
|  |  | XLR 3 pole male, Machined contacts, Black Finish, Jaws cable clamp   | Standard             | AC3MMB      |
|                                                                                     |                                                                                                                       |                                                                      | Gold Plated Contacts | AC3MMB-AU   |
|                                                                                     |                                                                                                                       |                                                                      | Large Cable Clamp    | AC3MMBJ     |
|                                                                                     |                                                                                                                       |                                                                      | Bulk Pack            | AC3MMB BULK |
|  |  | XLR 3 pole male, Stamped contacts, Nickel Finish, Jaws cable clamp   | Standard             | AC3M        |
|                                                                                     |                                                                                                                       |                                                                      | Gold Plated Contacts | AC3M-AU     |
|                                                                                     |                                                                                                                       |                                                                      | Large Cable Clamp    | AC3MJ       |
|                                                                                     |                                                                                                                       |                                                                      | Bulk Pack            | AC3M BULK   |
|  |  | XLR 3 pole male, Stamped contacts, Black Finish, Jaws cable clamp    | Standard             | AC3MB       |
|                                                                                     |                                                                                                                       |                                                                      | Gold Plated Contacts | AC3MB-AU    |
|                                                                                     |                                                                                                                       |                                                                      | Large Cable Clamp    | AC3MBJ      |
|                                                                                     |                                                                                                                       |                                                                      | Bulk Pack            | AC3MB BULK  |
|  |  | XLR 3 pole female, Stamped contacts, Nickel Finish, Jaws cable clamp | Standard             | AC3F        |
|                                                                                     |                                                                                                                       |                                                                      | Gold Plated Contacts | AC3F-AU     |
|                                                                                     |                                                                                                                       |                                                                      | Large Cable Clamp    | AC3FJ       |
|                                                                                     |                                                                                                                       |                                                                      | Bulk Pack            | AC3F BULK   |
|  |  | XLR 3 pole female, Stamped contacts, Black Finish, Jaws cable clamp  | Standard             | AC3FB       |
|                                                                                     |                                                                                                                       |                                                                      | Gold Plated Contacts | AC3FB-AU    |
|                                                                                     |                                                                                                                       |                                                                      | Large Cable Clamp    | AC3FBJ      |
|                                                                                     |                                                                                                                       |                                                                      | Bulk Pack            | AC3FB BULK  |

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

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



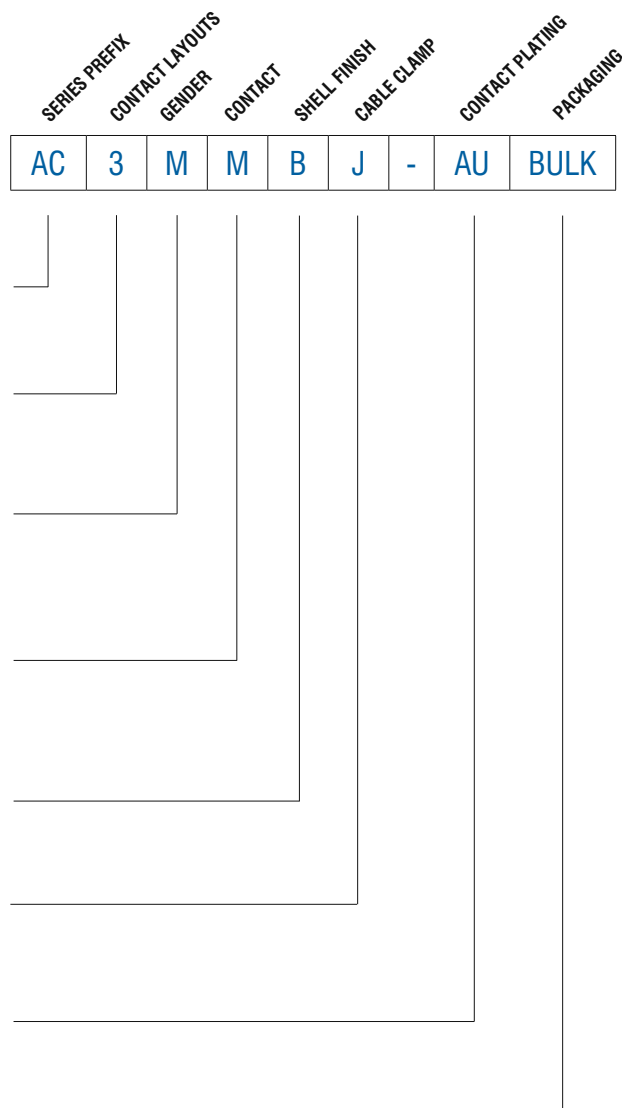
## PART NUMBER BREAKDOWN

### METAL SHELL TYPE - SOLDER

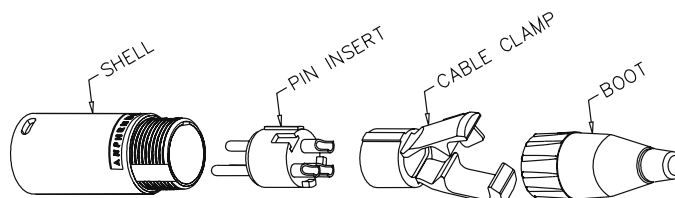
E. G. **AC3MMBJ-AU BULK**

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

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



### ISO VIEW OF AC3MM



#### Note:

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

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

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

<sup>4</sup> All AC Series Connectors are available with optional colour coded boot / backshell.  
Refer to page 134 and simply add colour to end of part number. Example: AC3MM - RED

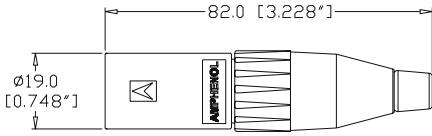
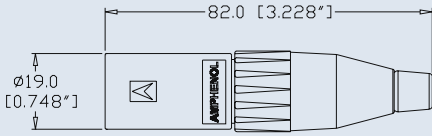
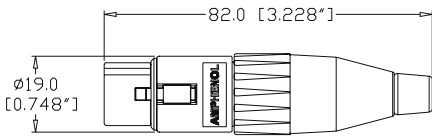


## Features:

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

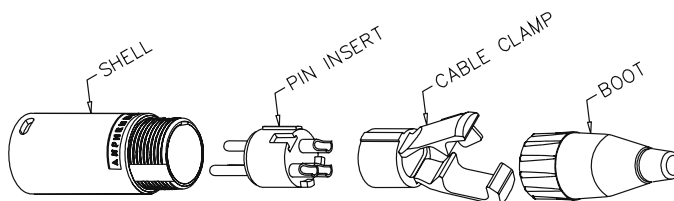
**Options:** Gold Plated Contacts, Stamped Contacts (3 Contact only), Bulk Pack, Coloured Boots / Backshells  
3, 4, 5, 6A and 7 Contacts.

**Specifications:** Page 16

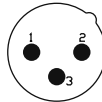
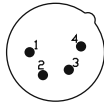
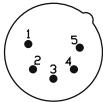
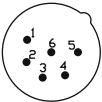
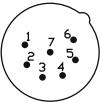
| PRODUCT - FIGURE                                                                    | DRAWING<br>Dimensions in mm (inches)                                                | DESCRIPTION                                                                         | VARIATIONS           | PART NUMBER  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------|--------------|
|    |    | XLR 3 pole male,<br>Machined contacts,<br>Thermoplastic shell,<br>Jaws cable clamp  | Standard             | AC3MMCP      |
|                                                                                     |                                                                                     |                                                                                     | Gold Plated Contacts | AC3MMCP-AU   |
|                                                                                     |                                                                                     |                                                                                     | Large Cable Clamp    | AC3MMCPJ     |
|                                                                                     |                                                                                     |                                                                                     | Bulk Pack            | AC3MMCP BULK |
|  |  | XLR 3 pole male,<br>Stamped contacts,<br>Thermoplastic shell,<br>Jaws cable clamp   | Standard             | AC3MCP       |
|                                                                                     |                                                                                     |                                                                                     | Gold Plated Contacts | AC3MCP-AU    |
|                                                                                     |                                                                                     |                                                                                     | Large Cable Clamp    | AC3MCPJ      |
|                                                                                     |                                                                                     |                                                                                     | Bulk Pack            | AC3MCP BULK  |
|  |  | XLR 3 pole female,<br>Stamped contacts,<br>Thermoplastic shell,<br>Jaws cable clamp | Standard             | AC3FCP       |
|                                                                                     |                                                                                     |                                                                                     | Gold Plated Contacts | AC3FCP-AU    |
|                                                                                     |                                                                                     |                                                                                     | Large Cable Clamp    | AC3FCPJ      |
|                                                                                     |                                                                                     |                                                                                     | Bulk Pack            | AC3FCP BULK  |

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

## ISO VIEW OF AC3MM



## STANDARD DATA AC CABLE CONNECTORS

|                            |                                                                  | VALUE                                                                             |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|----------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| GENERAL CHARACTERISTICS    | Number of contacts                                               | 3                                                                                 | 4                                                                                 | 5                                                                                   | 6A                                                                                  | 7                                                                                   |
|                            | AC Series Contact Arrangements (Front view of pin inserts)       |  |  |  |  |  |
|                            | Termination                                                      | SOLDER                                                                            |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                            | Max. Wire Gauge - Stranded wire: Solder                          | 14AWG                                                                             | 16AWG                                                                             | 18AWG                                                                               |                                                                                     | 20AWG                                                                               |
|                            | Flammability rating of insulator plastics and housings           | UL94V-0                                                                           |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                            | Environmental                                                    | Complies with EU RoHS 2 Directive 2011/65/EU                                      |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| ELECTRICAL CHARACTERISTICS | Service Voltage RMS                                              | 133V <sup>1</sup>                                                                 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                            | Test Voltage AC RMS                                              | 1400V                                                                             |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                            | Current carrying capacity: Solder                                | 15A                                                                               | 10A                                                                               | 7.5A                                                                                |                                                                                     | 5A                                                                                  |
|                            | Typical Contact Resistance                                       | ≤3mΩ                                                                              |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                            | Insulation Resistance                                            | ≥1GΩ                                                                              |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| CLIMATIC CHARACTERISTICS   | Protection Class                                                 | IP40                                                                              |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                            | Operating Temperature                                            | -25 °C to +75 °C (-13°F to +167°F)                                                |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| MECHANICAL CHARACTERISTICS | Insertion and Withdrawal force                                   | ≥10N - ≤30N                                                                       |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                            | Weight - Metal <sup>2</sup>                                      | 36g<br>(0.080lb)                                                                  | 37g<br>(0.081lb)                                                                  | 38g<br>(0.083lb)                                                                    |                                                                                     |                                                                                     |
|                            | Weight - Thermoplastic <sup>2</sup>                              | 18g<br>(0.039lb)                                                                  | 19g<br>(0.041lb)                                                                  | 20g<br>(0.044lb)                                                                    |                                                                                     |                                                                                     |
|                            | Typical Cable retention force                                    | 22Kg to 44Kg (50lb to 100lb) - Dependent on cable material and diameter.          |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                            | Cable O.D. range - JAWS clamp<br>Standard Solder<br>Large Solder | 3mm to 6.5mm (0.118" to 0.255")<br>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.

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

Rev 6 - 03/2015





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

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

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

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

### Features

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

### Options

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

### Ordering Codes

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

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

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


**Features:**

- Zinc Diecast Shell.
- D size housing can be front or rear mounted using the same panel cutout.
- Solder Bucket connections.
- Vertical PCB mounting (not available in 4 contact female).
- Precision machined or Stamped contacts (3 pin only).
- Leading first mate last break socket contact.
- Positive latch lock system.

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

**Part Number Breakdown:** [Page 25](#)

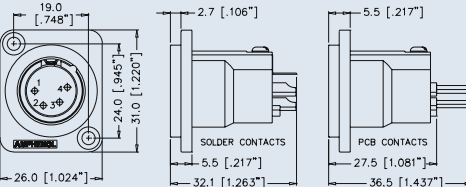
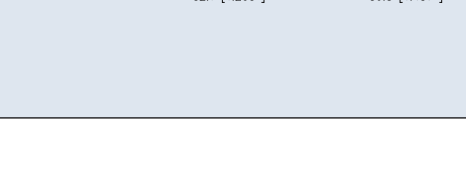
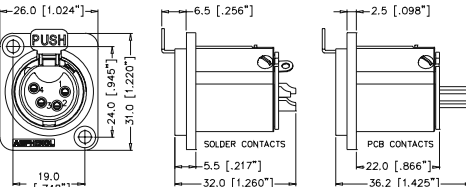
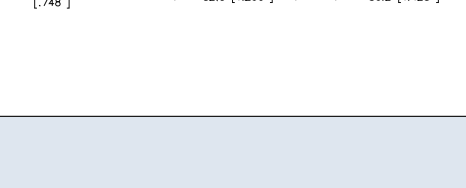
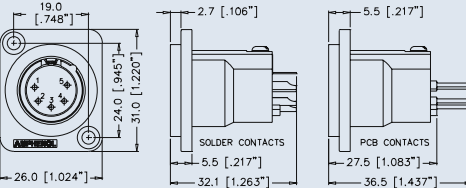
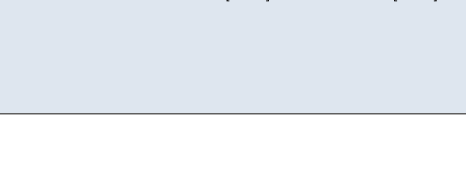
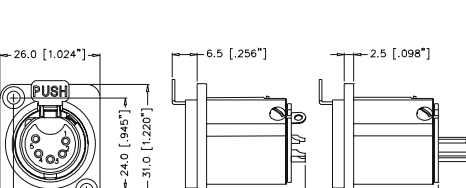
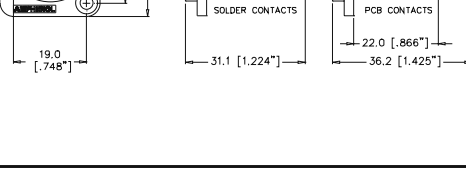
**Specifications:** [Page 26](#)

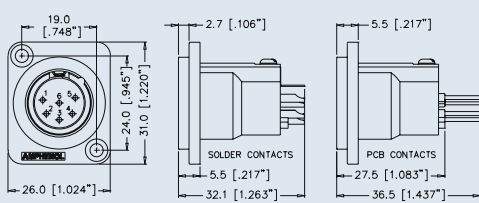
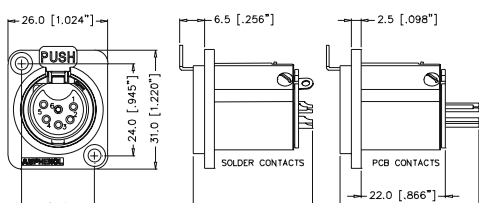
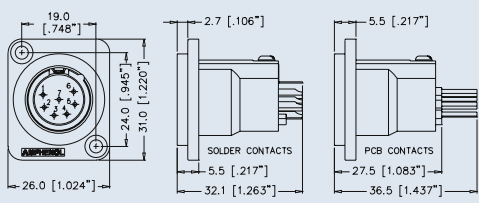
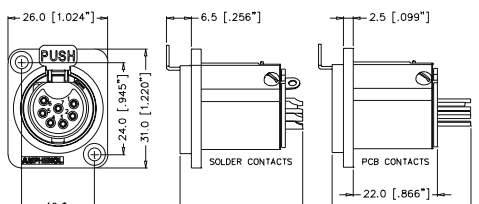
**PCB Footprints:** [Page 27](#)

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



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

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

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

## METAL P TYPE FLANGE - SOLDER AND PCB



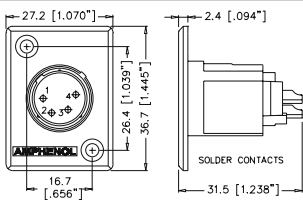
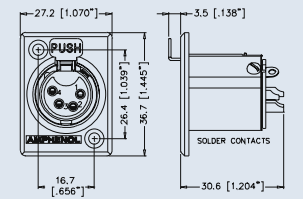
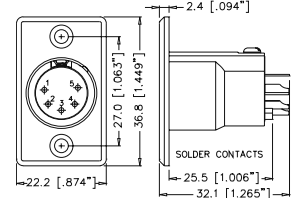
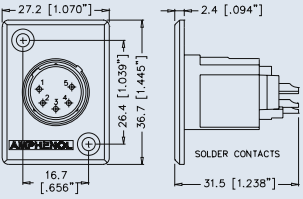
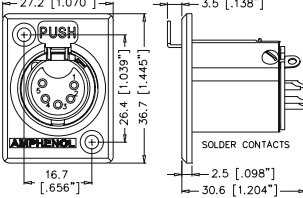
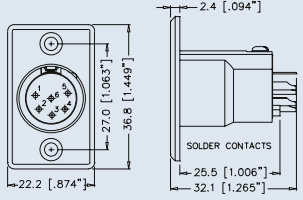
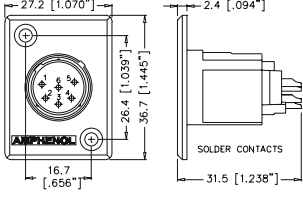
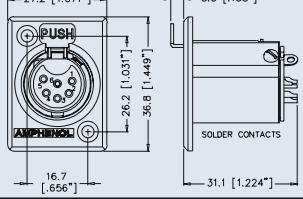
### Features:

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

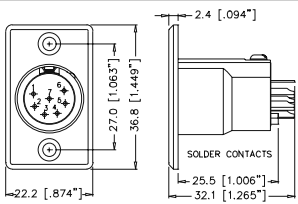
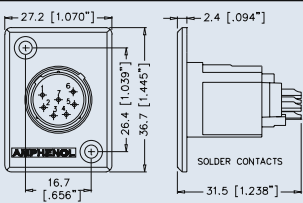
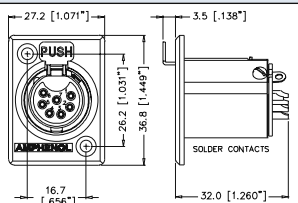
**Options:** Stamped contacts (3 contact only), Gold plated contacts, Black Finish, Non-Latching (Female only), Bulk Pack.

**Part Number Breakdown:** [Page 25](#)    **Specifications:** [Page 26](#)  
**PCB Footprints:** [Page 27](#)    **Panel Cutouts:** [Page 27](#)

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

| PRODUCT - FIGURE                                                                    | DRAWING                                                                             | Dimensions in mm (inches) | DESCRIPTION                                              | VARIATIONS   | PART NUMBER |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------------|--------------|-------------|
|    |    |                           | XLR 4 pole male,<br>Wide flange,<br>Machined contacts    | Standard     | AC4MP       |
|                                                                                     |                                                                                     |                           |                                                          | Black Finish | AC4MPB      |
|    |    |                           | XLR 4 pole female,<br>Wide flange,<br>Machined contacts  | Standard     | AC4FPZ      |
|                                                                                     |                                                                                     |                           |                                                          | Black Finish | AC4FPZB     |
|    |    |                           | XLR 5 pole male,<br>Narrow flange,<br>Machined contacts  | Standard     | AC5MPNZ     |
|                                                                                     |                                                                                     |                           |                                                          | Black Finish | AC5MPNZB    |
|   |   |                           | XLR 5 pole male,<br>Wide flange,<br>Machined contacts    | Standard     | AC5MP       |
|                                                                                     |                                                                                     |                           |                                                          | Black Finish | AC5MPB      |
|  |  |                           | XLR 5 pole female,<br>Wide flange,<br>Machined contacts  | Standard     | AC5FPZ      |
|                                                                                     |                                                                                     |                           |                                                          | Black Finish | AC5FPZB     |
|  |  |                           | XLR 6A pole male,<br>Narrow flange,<br>Machined contacts | Standard     | AC6AMPNZ    |
|                                                                                     |                                                                                     |                           |                                                          | Black Finish | AC6AMPNZB   |
|  |  |                           | XLR 6A pole male,<br>Wide flange,<br>Machined contacts   | Standard     | AC6AMP      |
|                                                                                     |                                                                                     |                           |                                                          | Black Finish | AC6AMPB     |
|  |  |                           | XLR 6A pole female,<br>Wide flange,<br>Machined contacts | Standard     | AC6AFPZ     |
|                                                                                     |                                                                                     |                           |                                                          | Black Finish | AC6AFPZB    |



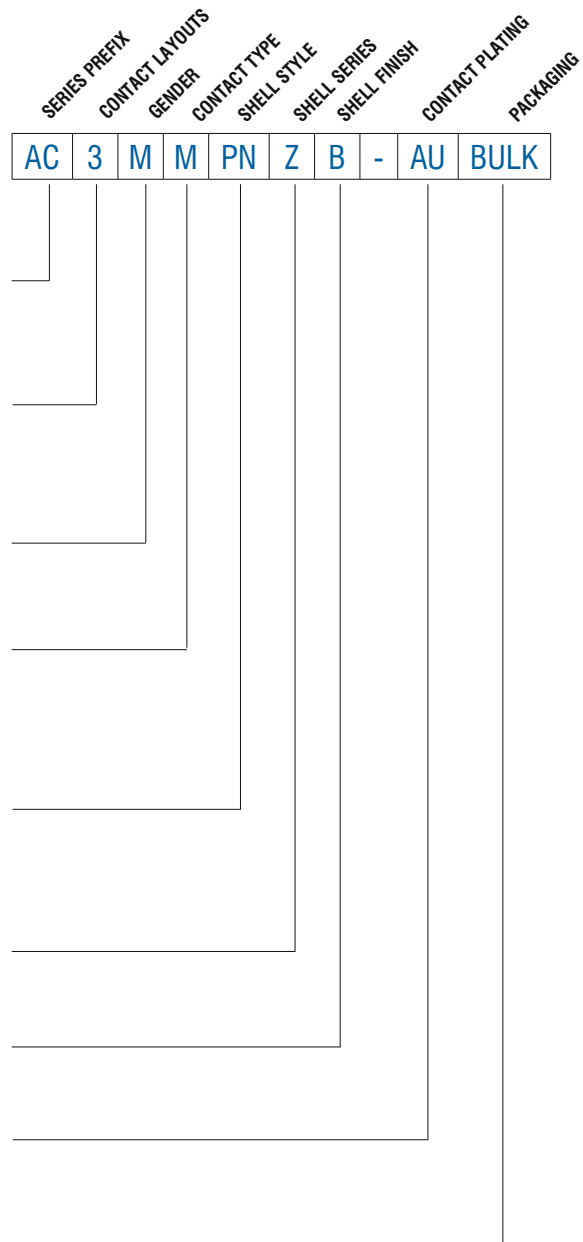
| PRODUCT - FIGURE                                                                  | DRAWING                                                                           | Dimensions in mm (inches) | DESCRIPTION                                                            | VARIATIONS   | PART NUMBER |
|---------------------------------------------------------------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

## PART NUMBER BREAKDOWN

### METAL TYPE FLANGE

E. G. **AC3MMPNZVB-AU BULK**  
**AC** (Series Prefix), **3** contacts, **Male**, **M**achined Contacts, **PN** (Narrow Flange), **Z** (Metal Chassis Series), **B**lack Polyester Finish, **- AU** (Gold Plated Contacts), **Bulk** Packaged.

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



#### Note:

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

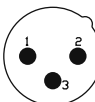
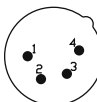
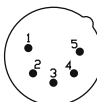
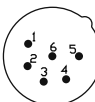
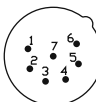
<sup>2</sup> Ground contacts are not supplied with the black polyester finish shell option.

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

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



## STANDARD DATA AC SERIES CHASSIS - METAL “Z”

|                                   |                                                    | VALUE                                                                             |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|-----------------------------------|----------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>GENERAL CHARACTERISTICS</b>    | Number of contacts                                 | 3                                                                                 | 4                                                                                 | 5                                                                                   | 6A                                                                                  | 7                                                                                   |
|                                   | Contact Arrangement<br>(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                                                                                 |
| <b>ELECTRICAL CHARACTERISTICS</b> | Flammability rating of plastics                    | UL94V-0                                                                           |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                                   | Environmental                                      | Complies with EU RoHS 2 Directive 2011/65/EU                                      |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                                   | Service Voltage RMS                                | 133V <sup>1)</sup>                                                                |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                                   | Test Voltage AC RMS                                | 1400V                                                                             |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                                   | Current carrying capacity:                         |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                                   | Solder                                             | 15A                                                                               | 10A                                                                               | 7.5A                                                                                | 7.5A                                                                                | 5A                                                                                  |
| <b>CLIMATIC CHARACTERISTICS</b>   | Printed Circuit Board (PCB)                        | 15A                                                                               | 10A                                                                               | 7.5A                                                                                | 7.5A                                                                                | 5A                                                                                  |
|                                   | Typical Contact Resistance                         | ≤3mΩ                                                                              |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| <b>MECHANICAL CHARACTERISTICS</b> | Insulation Resistance                              | ≥1000MΩ                                                                           |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                                   | Protection Class                                   | IP40                                                                              |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| <b>MATERIALS</b>                  | Operating Temperature                              | -25 °C to +75 °C (-13°F to +167°F)                                                |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                                   | Weight - Metal <sup>2)</sup>                       | 31g<br>(0.068lb)                                                                  | 32g<br>(0.070lb)                                                                  | 33g<br>(0.072lb)                                                                    | 33g<br>(0.072lb)                                                                    | 33g<br>(0.072lb)                                                                    |
| <b>MATERIALS</b>                  | Mechanical Operations                              | 1000 mating cycles                                                                |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                                   | 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)                                                 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |

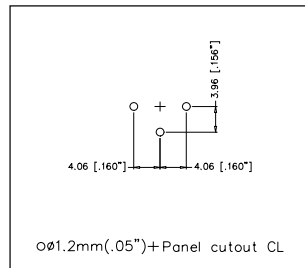
<sup>1)</sup> Not suitable for domestic applications above 50V

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

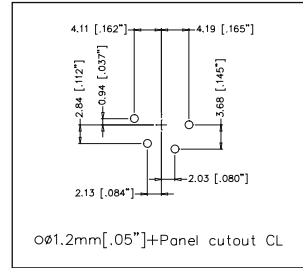
## AC SERIES CHASSIS METAL “Z”

### PCB FOOTPRINTS STRAIGHT (V)

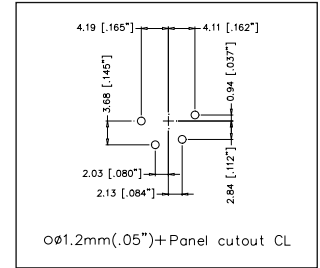
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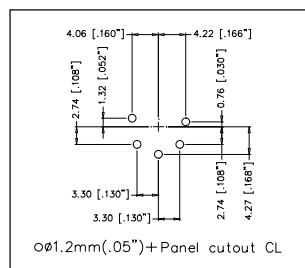
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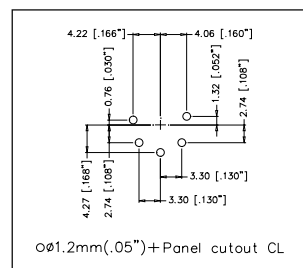
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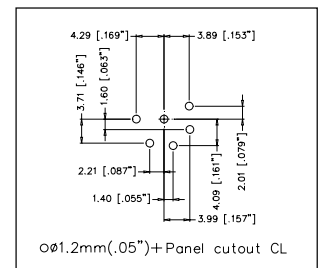
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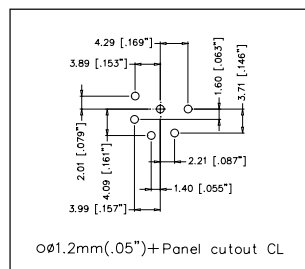
AC5F\*ZV



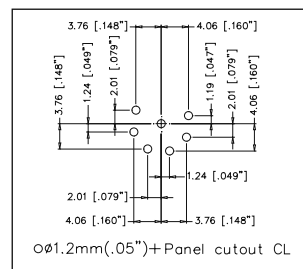
AC5M\*ZV



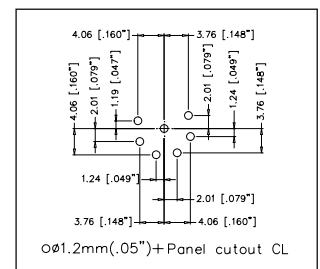
AC6AF\*ZV



AC6AM\*ZV



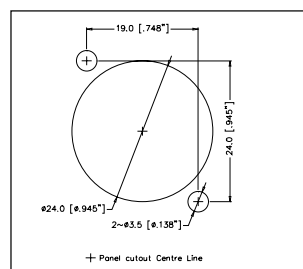
AC7F\*ZV



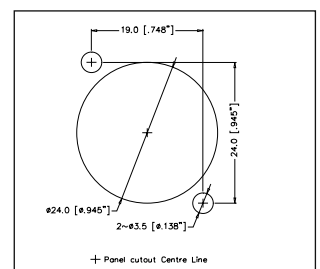
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### PANEL CUTOUT DIMENSIONS

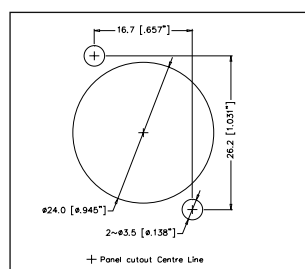
#### FRONT VIEW



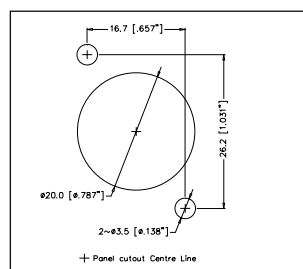
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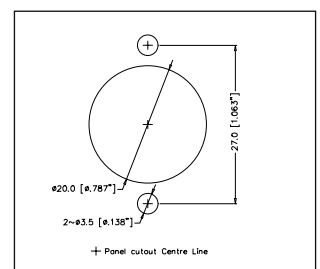
AC\*MDZ



AC\*FPZ



AC\*MP



AC\*MPNZ

## AC SERIES XLR PCB CHASSIS MOUNT CONNECTORS



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

### Features

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

### Options

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

### Ordering Codes

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

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

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

# Amphenol

AC SERIES CHASSIS CONNECTORS

## THERMOPLASTIC A - TYPE FLANGE 3 CONTACT



### Features:

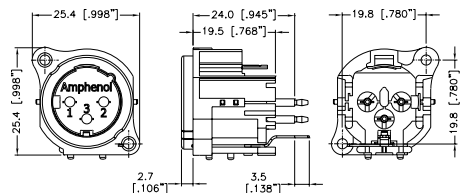
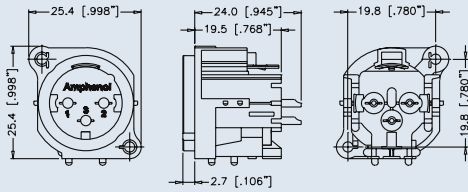
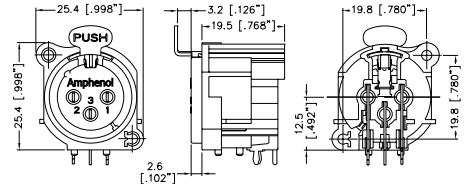
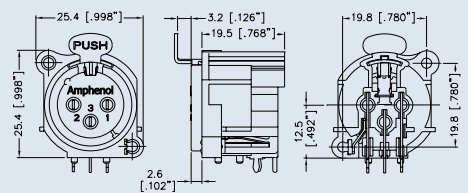
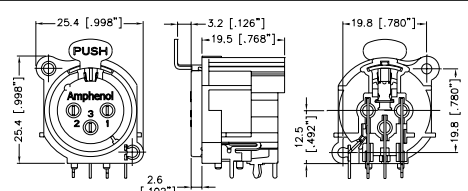
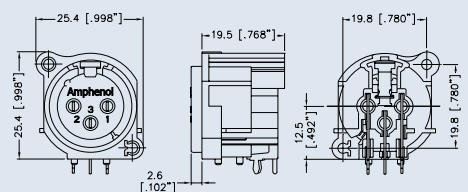
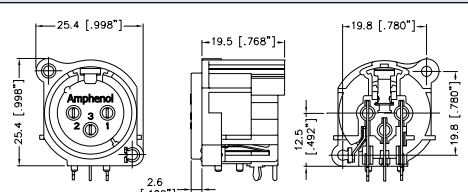
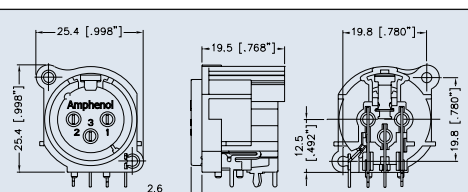
- Thermoplastic Shell
- Industry standard PCB footprints.
- Vertical or Horizontal PCB mounting.
- Precision machined pin contacts.
- Gold plated contacts.
- Leading first mate last break socket contact.
- Bulk packed in trays, 100 to a box as standard.
- Positive latch lock system.

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

**Part Number Breakdown:** [Page 37](#) **Specifications:** [Page 40](#)  
**PCB Footprints:** [Page 41](#) **Panel Cutouts:** [Page 42](#)  
**Recommended Fastener:** [Page 132](#)



| PRODUCT - FIGURE | DRAWING | Dimensions in mm (inches) | DESCRIPTION                                                                             | GROUND LINK VARIATIONS                                      | PART NUMBER    |
|------------------|---------|---------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------|
|                  |         |                           | XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack                        | No Ground Link                                              | AC3MAH-AU-PRE  |
|                  |         |                           | XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack                        | Pin 1 to Chassis to Mating connector shell                  | AC3MAH1-AU-PRE |
|                  |         |                           | XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack                        | Mating connector shell to Chassis - Pin 1 sep. Ground       | AC3MAH2-AU-PRE |
|                  |         |                           | XLR 3 pole male with integrated switch, Horizontal PCB, Gold Plated Contacts, Bulk Pack | Mating connector shell to Chassis to PCB, Pin 1 sep. Ground | AC3MAH4-SW-B   |
|                  |         |                           | XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack                          | No Ground Link                                              | AC3MAV-AU-PRE  |

| PRODUCT - FIGURE                                                                    | DRAWING                                                                             | Dimensions in mm (inches) | DESCRIPTION                                                                                      | GROUND LINK VARIATIONS                                       | PART NUMBER     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-----------------|
|    |    |                           | XLR 3 pole male,<br>Vertical PCB,<br>Gold Plated Contacts,<br>Bulk Pack                          | Mating connector<br>shell to Chassis -<br>Pin 1 sep. Ground  | AC3MAV2-AU-PRE  |
|    |    |                           | XLR 3 pole male,<br>Solder Buckets,<br>Gold Plated Contacts,<br>Bulk Pack                        | No Ground Link                                               | AC3MA-AU-B      |
|    |    |                           | XLR 3 pole female,<br>Horizontal PCB,<br>Latching Type,<br>Gold Plated Contacts,<br>Bulk Pack    | No Ground Link                                               | AC3FAH-AU-PRE   |
|  |   |                           | XLR 3 pole female,<br>Horizontal PCB,<br>Latching Type,<br>Gold Plated Contacts,<br>Bulk Pack    | Pin 1 to Chassis to<br>Mating connector<br>shell             | AC3FAH1-AU-PRE  |
|  |  |                           | XLR 3 pole female,<br>Horizontal PCB,<br>Latching Type,<br>Gold Plated Contacts,<br>Bulk Pack    | Mating connector<br>shell to Chassis -<br>Pin 1 sep. Ground  | AC3FAH2-AU-PRE  |
|  |  |                           | XLR 3 pole female,<br>Horizontal PCB,<br>Non-Latching Type<br>Gold Plated Contacts,<br>Bulk Pack | No Ground Link                                               | AC3FAHL-AU-PRE  |
|  |  |                           | XLR 3 pole female,<br>Horizontal PCB,<br>Non-Latching Type<br>Gold Plated Contacts,<br>Bulk Pack | Pin 1 to Chassis<br>to mating<br>connector shell             | AC3FAHL1-AU-PRE |
|  |  |                           | XLR 3 pole female,<br>Horizontal PCB,<br>Non-Latching Type<br>Gold Plated Contacts,<br>Bulk Pack | Mating connector<br>shell to Chassis -<br>Pin 1 sep. Ground. | AC3FAHL2-AU-PRE |

| PRODUCT - FIGURE                                                                    | DRAWING | Dimensions in mm (inches) | DESCRIPTION                                                                         | GROUND LINK VARIATIONS                                 | PART NUMBER     |
|-------------------------------------------------------------------------------------|---------|---------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------|-----------------|
|    |         |                           | XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack     | No Ground Link                                         | AC3FAV-AU-PRE   |
|    |         |                           | XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack     | Pin 1 to Chassis to Mating connector shell             | AC3FAV1-AU-PRE  |
|    |         |                           | XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack     | Mating connector shell to Chassis - Pin 1 sep. Ground. | AC3FAV2-AU-PRE  |
|   |         |                           | XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack | No Ground Link                                         | AC3FAVL-AU-PRE  |
|  |         |                           | XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack | Pin 1 to Chassis to Mating connector shell             | AC3FAVL1-AU-PRE |
|  |         |                           | XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack | Mating connector shell to Chassis - Pin 1 sep. Ground. | AC3FAVL2-AU-PRE |





## Features:

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

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

**Part Number Breakdown:** [Page 37](#) **Specifications:** [Page 40](#)

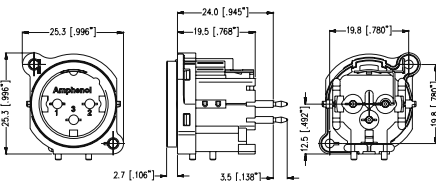
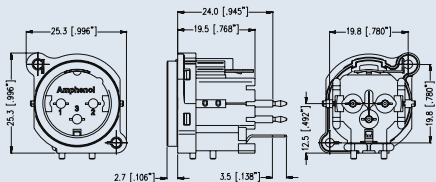
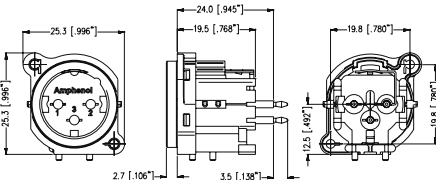
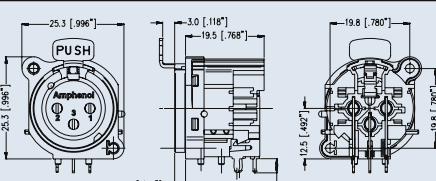
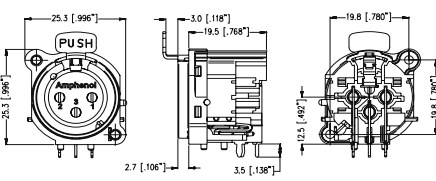
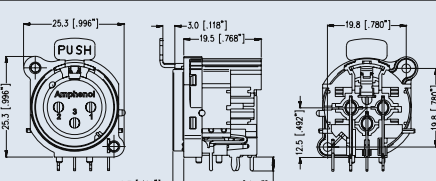
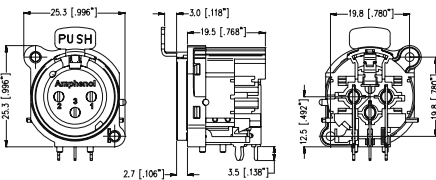
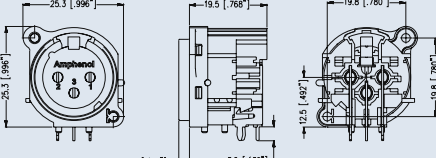
**PCB Footprints:** [Page 41](#)

**Panel Cutouts:** [Page 42](#)

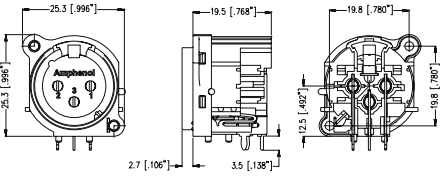
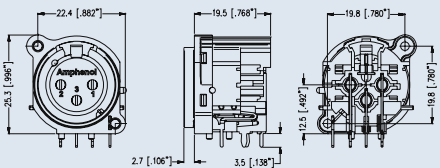
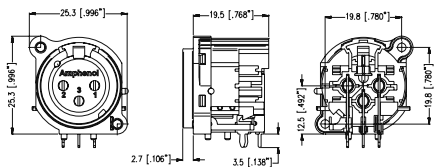
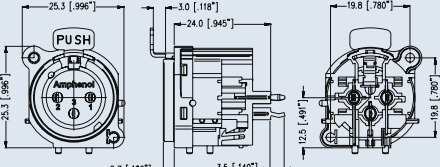
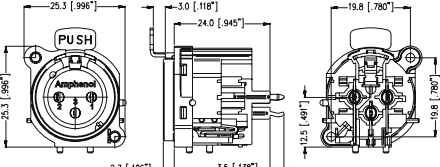
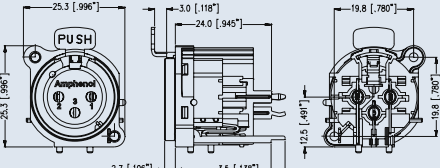
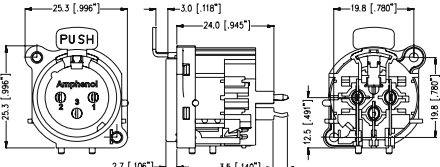
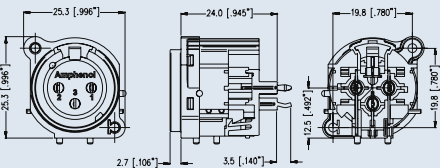
**Recommended Fastener:** [Page 132](#)

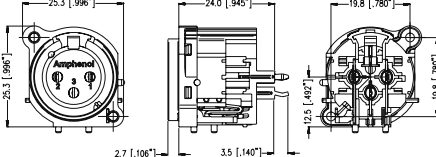
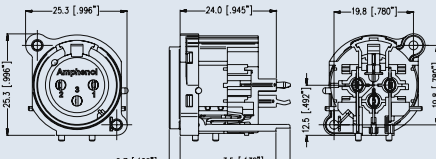
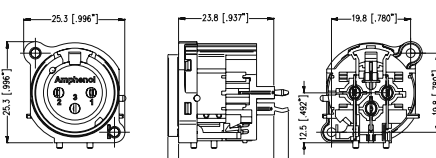
| PRODUCT - FIGURE | DRAWING | Dimensions in mm (inches) | DESCRIPTION/<br>GROUND LINK                                                                                                              | MOUNTING FLANGE<br>VARIATIONS | PART NUMBER  |
|------------------|---------|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------|
|                  |         |                           | XLR 3 pole male,<br>Horizontal PCB,<br>Gold Plated Contacts,<br>Bulk Pack<br>No Ground Link                                              | Nickel Finish                 | AC3MBH-AU-B  |
|                  |         |                           | XLR 3 pole male,<br>Horizontal PCB,<br>Gold Plated Contacts,<br>Bulk Pack<br>Pin 1 to Chassis to<br>Mating connector<br>shell            | Nickel Finish                 | AC3MBH1-AU-B |
|                  |         |                           | XLR 3 pole male,<br>Horizontal PCB,<br>Gold Plated Contacts,<br>Bulk Pack<br>Mating connector<br>shell to Chassis -<br>Pin 1 sep. Ground | Nickel Finish                 | AC3MBH2-AU-B |
|                  |         |                           | XLR 3 pole male,<br>Horizontal PCB,<br>Gold Plated Contacts,<br>Bulk Pack<br>Mating connector<br>shell to Pin 1                          | Nickel Finish                 | AC3MBH3-AU-B |
|                  |         |                           | XLR 3 pole male,<br>Horizontal PCB,<br>Non-Latching Type,<br>Gold Plated Contacts,<br>Bulk Pack<br>No Ground Link                        | Nickel Finish                 | AC3MBHL-AU-B |
|                  |         |                           | XLR 3 pole male,<br>Vertical PCB,<br>Gold Plated Contacts,<br>Bulk Pack<br>No Ground Link                                                | Nickel Finish                 | AC3MBV-AU-B  |

## METAL B TYPE FLANGE

| PRODUCT - FIGURE                                                                    | DRAWING<br>Dimensions in mm (inches)                                                | DESCRIPTION/<br>GROUND LINK                                                                                                                                      | MOUNTING FLANGE<br>VARIATIONS | PART NUMBER  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------|
|    |    | XLR 3 pole male,<br>Vertical PCB,<br>Gold Plated Contacts,<br>Bulk Pack<br><br>Pin 1 to Chassis to<br>Mating connector<br>shell                                  | Nickel Finish                 | AC3MBV1-AU-B |
|    |    | XLR 3 pole male,<br>Vertical PCB,<br>Gold Plated Contacts,<br>Bulk Pack<br><br>Mating connector<br>shell to Chassis -<br>Pin 1 sep. Ground                       | Nickel Finish                 | AC3MBV2-AU-B |
|    |    | XLR 3 pole male,<br>Vertical PCB,<br>Gold Plated Contacts,<br>Bulk Pack<br><br>Mating connector<br>shell to Pin 1                                                | Nickel Finish                 | AC3MBV3-AU-B |
|  |   | XLR 3 pole female,<br>Horizontal PCB,<br>Latching Type,<br>Gold Plated Contacts,<br>Bulk Pack<br><br>No Ground Link                                              | Nickel Finish                 | AC3FBH-AU-B  |
|  |  | XLR 3 pole female,<br>Horizontal PCB,<br>Latching Type,<br>Gold Plated Contacts,<br>Bulk Pack<br><br>Pin 1 to Chassis to<br>Mating connector shell               | Nickel Finish                 | AC3FBH1-AU-B |
|  |  | XLR 3 pole female,<br>Horizontal PCB, Latching<br>Type, Gold Plated<br>Contacts,<br>Bulk Pack<br><br>Mating connector shell<br>to Chassis - Pin 1 sep.<br>Ground | Nickel Finish                 | AC3FBH2-AU-B |
|  |  | XLR 3 pole female,<br>Horizontal PCB,<br>Latching Type,<br>Gold Plated Contacts,<br>Bulk Pack<br><br>Pin 1 to Chassis                                            | Nickel Finish                 | AC3FBH3-AU-B |
|  |  | XLR 3 pole female,<br>Horizontal PCB,<br>Non-Latching Type<br>Gold Plated Contacts,<br>Bulk Pack<br><br>No Ground Link                                           | Nickel Finish                 | AC3FBHL-AU-B |



| PRODUCT - FIGURE                                                                    | DRAWING                                                                             | Dimensions in mm (inches) | DESCRIPTION/<br>GROUND LINK                                                                                                                                         | MOUNTING FLANGE<br>VARIATIONS | PART NUMBER   |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------|
|    |    |                           | XLR 3 pole female,<br>Horizontal PCB,<br>Non-Latching Type<br>Gold Plated Contacts,<br>Bulk Pack<br><br>Pin 1 to Chassis to<br>mating connector shell               | Nickel Finish                 | AC3FBHL1-AU-B |
|    |    |                           | XLR 3 pole female,<br>Horizontal PCB, Non-<br>Latching Type, Gold Plated<br>Contacts, Bulk Pack<br><br>Mating connector<br>shell to Chassis -<br>Pin 1 sep. Ground. | Nickel Finish                 | AC3FBHL2-AU-B |
|    |    |                           | XLR 3 pole female,<br>Horizontal PCB,<br>Non-Latching Type<br>Gold Plated Contacts,<br>Bulk Pack<br><br>Pin 1 to Chassis                                            | Nickel Finish                 | AC3FBHL3-AU-B |
|  |  |                           | XLR 3 pole female,<br>Vertical PCB,<br>Latching Type,<br>Gold Plated Contacts,<br>Bulk Pack<br><br>No Ground Link                                                   | Nickel Finish                 | AC3FBV-AU-B   |
|  |  |                           | XLR 3 pole female,<br>Vertical PCB,<br>Latching Type,<br>Gold Plated Contacts,<br>Bulk Pack<br><br>Pin 1 to Chassis to<br>mating connector shell                    | Nickel Finish                 | AC3FBV1-AU-B  |
|  |  |                           | XLR 3 pole female,<br>Vertical PCB, Latching<br>Type, Gold Plated<br>Contacts, Bulk Pack<br><br>Mating connector shell<br>to Chassis - Pin 1 sep.<br>Ground.        | Nickel Finish                 | AC3FBV2-AU-B  |
|  |  |                           | XLR 3 pole female,<br>Vertical PCB,<br>Latching Type,<br>Gold Plated Contacts,<br>Bulk Pack<br><br>Pin 1 to Chassis                                                 | Nickel Finish                 | AC3FBV3-AU-B  |
|  |  |                           | XLR 3 pole female,<br>Vertical PCB,<br>Non-Latching Type,<br>Gold Plated Contacts,<br>Bulk Pack<br><br>No Ground Link                                               | Nickel Finish                 | AC3FBVL-AU-B  |

| PRODUCT - FIGURE                                                                  | DRAWING                                                                           | DESCRIPTION/<br>GROUND LINK                                                                                                                                    | MOUNTING FLANGE<br>VARIATIONS | PART NUMBER   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------|
|  |  | XLR 3 pole female,<br>Vertical PCB,<br>Non-Latching Type,<br>Gold Plated Contacts,<br>Bulk Pack<br><br>Pin 1 to Chassis to<br>Mating connector shell           | Nickel Finish                 | AC3FBVL1-AU-B |
|  |  | XLR 3 pole female,<br>Vertical PCB,<br>Non-Latching Type,<br>Gold Plated Contacts,<br>Bulk Pack<br><br>Mating connector shell to<br>Chassis-Pin 1 sep. Ground. | Nickel Finish                 | AC3FBVL2-AU-B |
|  |  | XLR 3 pole female,<br>Vertical PCB,<br>Non-Latching Type,<br>Gold Plated Contacts,<br>Bulk Pack<br><br>Pin 1 to Chassis                                        | Nickel Finish                 | AC3FBVL3-AU-B |



## THERMOPLASTIC A - TYPE FLANGE 5 CONTACT



### Features:

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

**Options:** Vertical or Horizontal PCB,

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

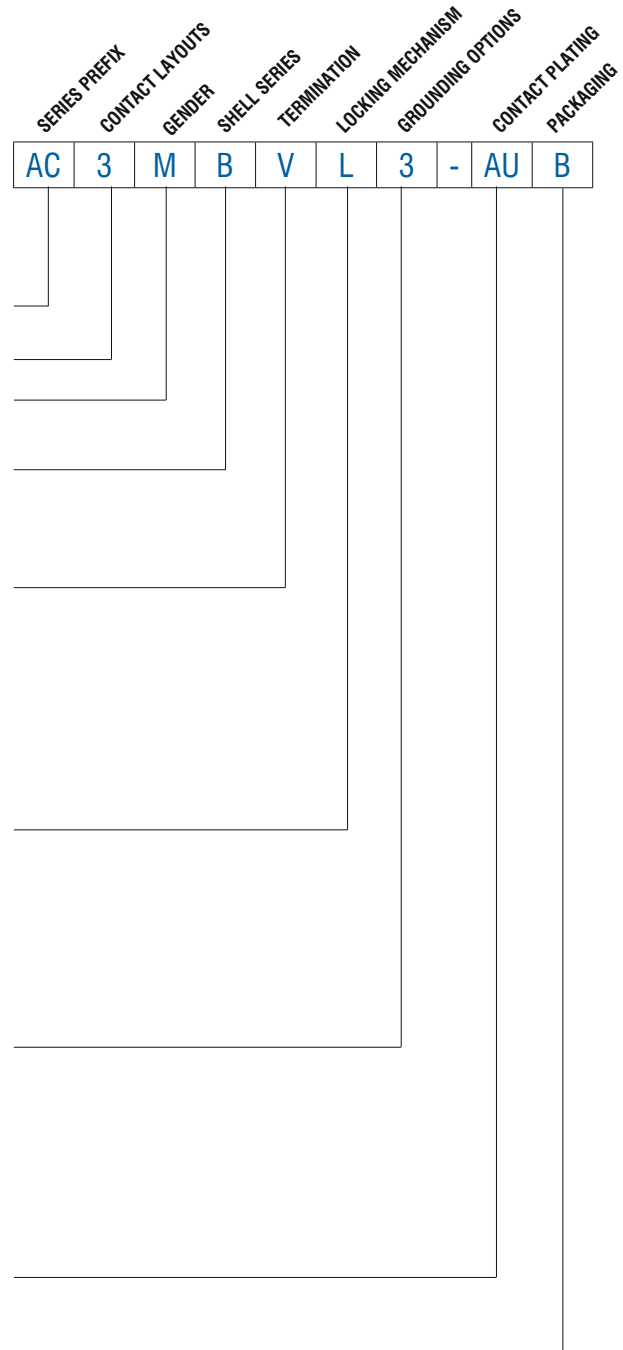
| PRODUCT - FIGURE | DRAWING | Dimensions in mm (inches)                                                                                                             | DESCRIPTION/<br>GROUND LINK                                                 | MOUNTING FLANGE<br>VARIATIONS                                        | PART NUMBER |
|------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------|-------------|
|                  |         | 19.8 [.780"]<br>19.0 [.748"]<br>25 [.984"]<br>19.5 [.492"]<br>25 [.984"]<br>3.5 [.138"]<br>2.7 [.106"]                                | XLR 5 pole male,<br>Horizontal PCB,<br>Gold Plated Contacts,<br>Bulk Pack   | Mating connector<br>shell to Chassis<br>to PCB, Pin 1 sep.<br>Ground | AC5MAH-AU-B |
|                  |         | 19.8 [.780"]<br>24 [.945"]<br>25 [.984"]<br>12.5 [.492"]<br>25 [.984"]<br>19.8 [.780"]<br>27.5 [1.083"]<br>2.7 [.106"]                | XLR 5 pole male, Verti-<br>cal PCB,<br>Gold Plated Contacts,<br>Bulk Pack   | Mating connector<br>shell to Chassis<br>to PCB, Pin 1 sep.<br>Ground | AC5MAV-AU-B |
|                  |         | 19.8 [.780"]<br>19.5 [.768"]<br>25 [.984"]<br>12.5 [.492"]<br>25 [.984"]<br>3.2 [.125"]<br>19.5 [.768"]<br>2.7 [.106"]                | XLR 5 pole female,<br>Horizontal PCB,<br>Gold Plated Contacts,<br>Bulk Pack | Mating connector<br>shell to Chassis<br>to PCB, Pin 1 sep.<br>Ground | AC5FAH-AU-B |
|                  |         | 19.8 [.780"]<br>3.2 [.125"]<br>25 [.984"]<br>12.5 [.492"]<br>25 [.984"]<br>19.5 [.768"]<br>24 [.945"]<br>27.5 [1.083"]<br>2.7 [.106"] | XLR 5 pole female,<br>Vertical PCB,<br>Gold Plated Contacts,<br>Bulk Pack   | Mating connector<br>shell to Chassis<br>to PCB, Pin 1 sep.<br>Ground | AC5FAV-AU-B |

## PART NUMBER BREAKDOWN

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

E. G. **AC3MAVL3-AU B**  
**AC** (series prefix), **3** contacts, **M**ale, **A** Type, **V**ertical Printed Circuit Board, **L**atchless, **3** (Mating Shell to Pin 1 Grounding), **- AU** (Gold Plated Contacts), **B**ulk Packaged.

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

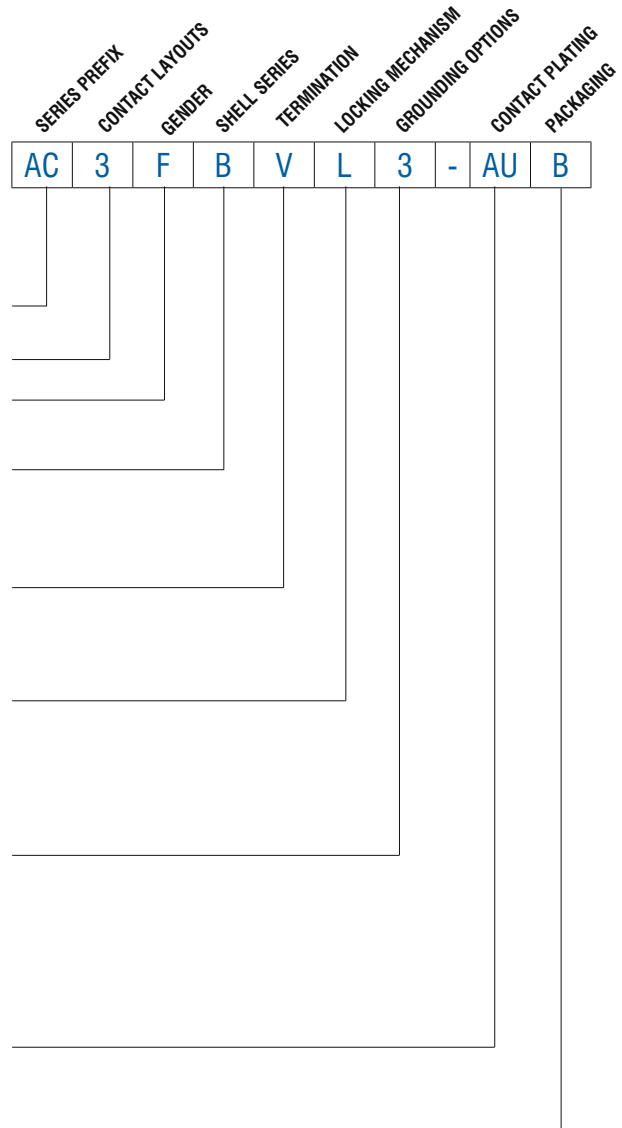


## PART NUMBER BREAKDOWN

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

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

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

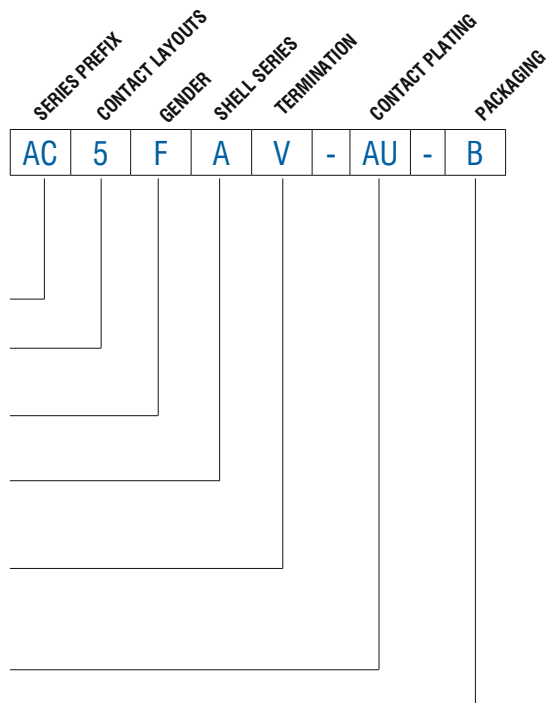


## PART NUMBER BREAKDOWN

AC SERIES A TYPE MALE AND FEMALE - 5 CONTACT

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

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



## STANDARD DATA AC SERIES A AND B TYPE CHASSIS

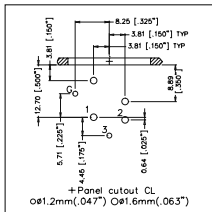
|                                   |                                                                                        | VALUE                                                                                                     |                                                                                     |
|-----------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>GENERAL CHARACTERISTICS</b>    | Number of contacts                                                                     | 3                                                                                                         | 5                                                                                   |
|                                   | Contact Arrangements<br>(Front view of pin insert)                                     |                          |  |
|                                   | Termination                                                                            | Printed Circuit Board (PCB)                                                                               |                                                                                     |
|                                   | Flammability rating of plastics                                                        | UL94V-0                                                                                                   |                                                                                     |
|                                   | Environmental                                                                          | Complies with EU RoHS 2 Directive 2011/65/EU                                                              |                                                                                     |
| <b>ELECTRICAL CHARACTERISTICS</b> | Service Voltage RMS                                                                    | 133V <sup>1)</sup>                                                                                        |                                                                                     |
|                                   | Test Voltage AC RMS                                                                    | 1500V                                                                                                     |                                                                                     |
|                                   | Current carrying capacity                                                              | 6A                                                                                                        | 3A                                                                                  |
|                                   | Typical Contact Resistance                                                             | ≤5mΩ                                                                                                      |                                                                                     |
|                                   | Insulation Resistance (initial)                                                        | ≥2GΩ                                                                                                      |                                                                                     |
|                                   | Insulation Resistance (after damp heat test)                                           | ≥1GΩ                                                                                                      |                                                                                     |
| <b>CLIMATIC CHARACTERISTICS</b>   | Protection Class                                                                       | IP40                                                                                                      |                                                                                     |
|                                   | Operating Temperature                                                                  | -25 °C to +75 °C (-13°F to +167°F)                                                                        |                                                                                     |
| <b>MECHANICAL CHARACTERISTICS</b> | Weight <sup>2)</sup>                                                                   | 14g (0.030lb)                                                                                             |                                                                                     |
|                                   | Retention Spring separating force                                                      | ≥20N                                                                                                      |                                                                                     |
|                                   | Mounting Screw torque max.                                                             | 1.5Nm                                                                                                     |                                                                                     |
|                                   | Mechanical Operations                                                                  | 1500 mating cycles                                                                                        |                                                                                     |
|                                   | Fastening A Type Connectors <sup>3)</sup><br>Fastening B Type Connectors <sup>3)</sup> | Self-Tapping PT screw with thread 2.9 x 1.06 and of Tri-rondular configuration<br>Self-Tapping screw M2.5 |                                                                                     |
| <b>MATERIALS</b>                  | Connector Flange - B-Type<br>Flange Finish - B-Type                                    | Diecast Zinc Alloy<br>Nickel                                                                              |                                                                                     |
|                                   | Insulators                                                                             | PA6.6+25% glass fibre reinforced, UL94V-0                                                                 |                                                                                     |
|                                   | Male Contact Material<br>Male Contact Plating                                          | Brass<br>0.05μm gold over 2μm nickel                                                                      |                                                                                     |
|                                   | Female Contact Material<br>Female Contact Plating                                      | Bronze<br>0.05μm gold over 2μm nickel                                                                     |                                                                                     |
|                                   | Latch lock and Spring                                                                  | Spring Steel                                                                                              |                                                                                     |
|                                   | Ground element                                                                         | Spring Steel                                                                                              |                                                                                     |

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

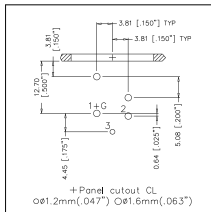
<sup>2</sup> Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.

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

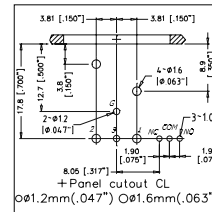
## AC SERIES A AND B TYPE CHASSIS PCB FOOTPRINTS STRAIGHT (V) - CONNECTOR SIDE OF PCB



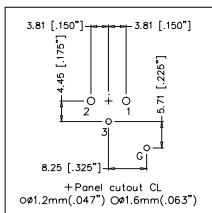
**AC3FAH2  
AC3FBH2**



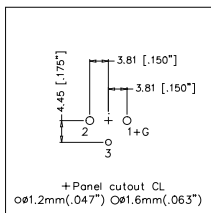
**AC3FAH1  
AC3FAH3  
AC3FBH1  
AC3FBH3  
AC3FAH  
AC3FBH**



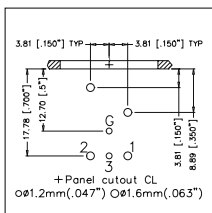
**AC3MAH4SWB**



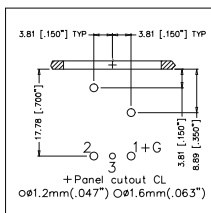
**AC3FAV2  
AC3FBV2**



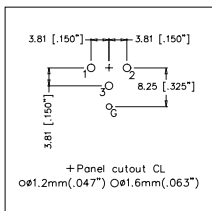
**AC3FAV1  
AC3FAV3  
AC3FBV1  
AC3FBV3  
AC3FAV  
AC3FBV**



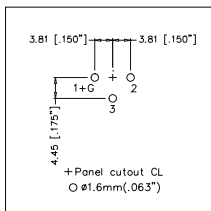
**AC3MAH2  
AC3MAH4  
AC3MBH2**



**AC3MAH1  
AC3MAH3  
AC3MBH1  
AC3MBH3  
AC3MAH  
AC3MBH  
AC3MBHL**

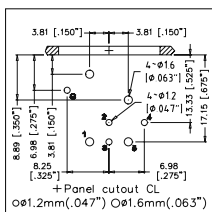


**AC3MAV2  
AC3MAV4  
AC3MBV2**

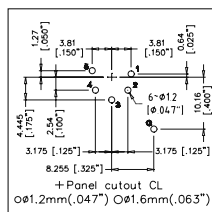


**AC3MAV1  
AC3MAV3  
AC3MBV1  
AC3MBV3  
AC3MAV  
AC3MBV**

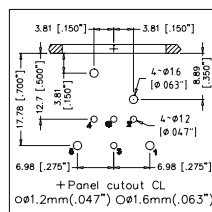
## AC SERIES 5 PIN PCB FOOTPRINTS STRAIGHT (V) - CONNECTOR SIDE OF PCB



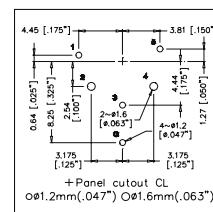
**AC5FAH**



**AC5FAV**



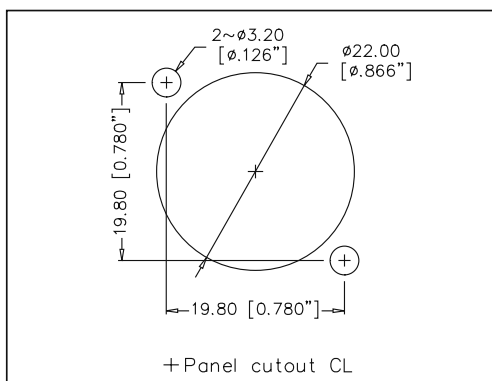
**AC5MAH**



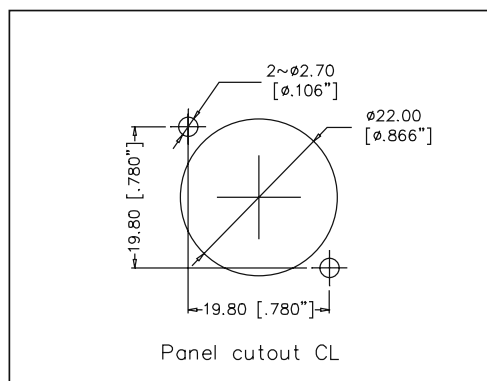
**AC5MAV**

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

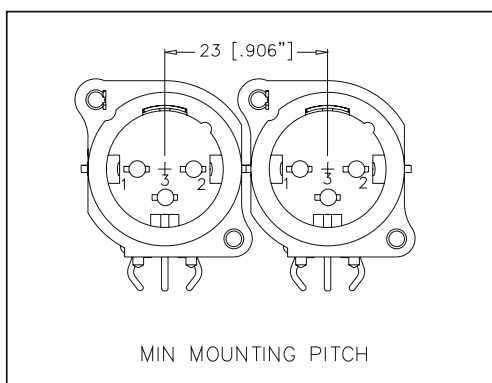
**A TYPE**



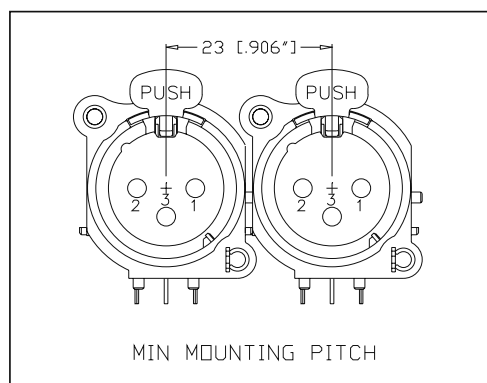
**B TYPE**



**A AND B  
TYPE MALE  
MOUNTING  
PITCH**

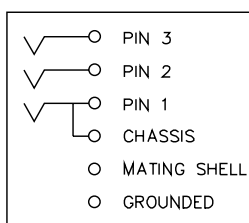


**A AND  
B TYPE  
FEMALE  
MOUNTING  
PITCH**

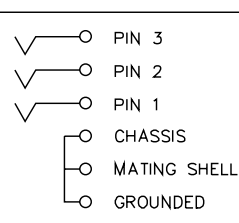


## AC3FA/BH/V SCHEMATIC CHART

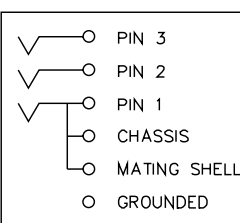
AC3FA/BH/V3-AU  
AC3FA/BH/VL3-AU



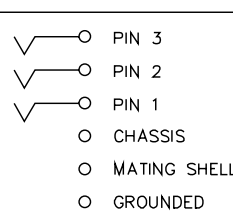
AC3FA/BH/V2-AU  
AC3FA/BH/VL2-AU



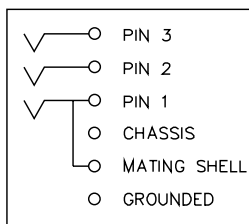
AC3FA/BH/V1-AU  
AC3FA/BH/VL1-AU



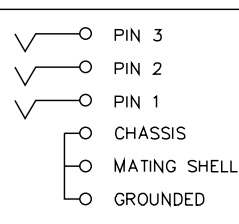
AC3FA/BH/V-AU  
AC3FA/BH/VL-AU



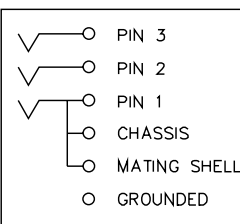
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AC3MA/BH/VL3-AU



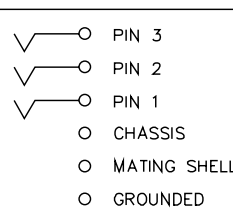
AC3MA/BH/V2/4-AU  
AC3MA/BH/VL2/4-AU



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



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





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



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

### Ordering Codes

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

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

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

### Features

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

### Options

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

# Amphenol

AC SERIES CHASSIS CONNECTORS

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



### Features:

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

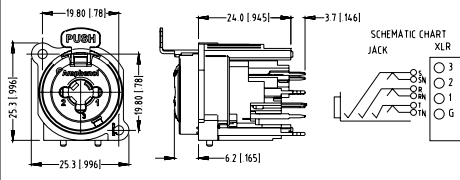
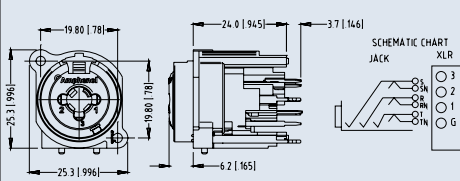
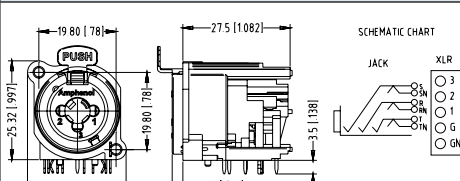
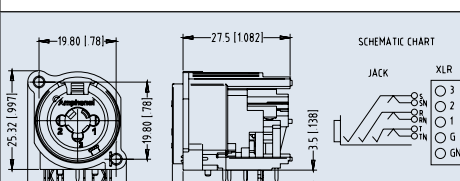
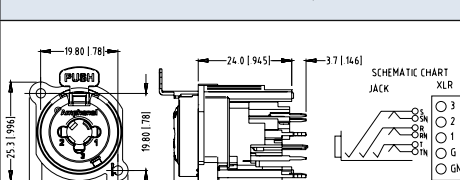
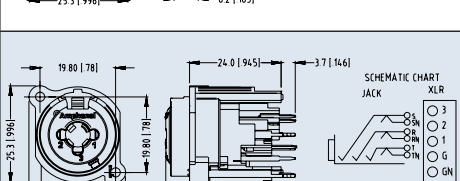
Part Number Breakdown: Page 49

Specifications: Page 51

PCB Footprints: Page 50

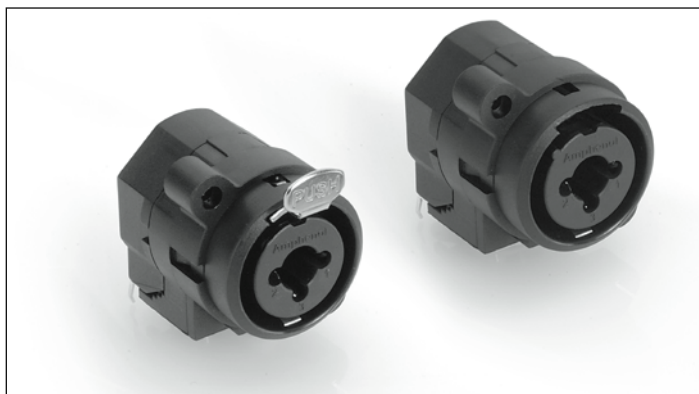
Recommended Fastener: Page 132

| PRODUCT - FIGURE | DRAWING | Dimensions in mm (inches) | DESCRIPTION                                                                                                               | VARIATIONS                     | PART NUMBER    |
|------------------|---------|---------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------|
|                  |         |                           | Low Profile XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Horizontal PCB mount, Bulk Pack | Latching                       | ACJC6AH BULK   |
|                  |         |                           | Low Profile XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Horizontal PCB mount, Bulk Pack | Non-latching, Retention Spring | ACJC6AHL BULK  |
|                  |         |                           | Low Profile XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Vertical PCB mount, Bulk Pack   | Latching                       | ACJC6AV2 BULK  |
|                  |         |                           | Low Profile XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Vertical PCB mount, Bulk Pack   | Non-latching, Retention Spring | ACJC6AV2L BULK |
|                  |         |                           | Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack, Horizontal PCB mount, Bulk Pack                 | Latching                       | ACJC9AH BULK   |
|                  |         |                           | Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack, Horizontal PCB mount, Bulk Pack                 | Non-latching, Retention Spring | ACJC9AHL BULK  |

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



## C - TYPE DUAL JACK / XLR CONNECTORS



### Features:

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

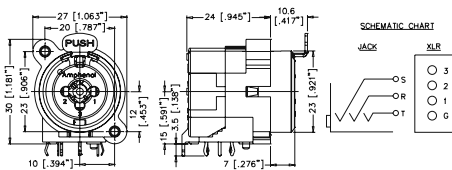
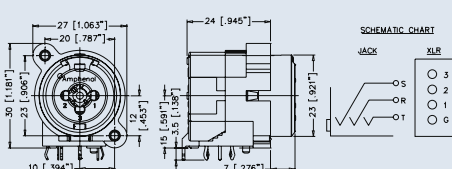
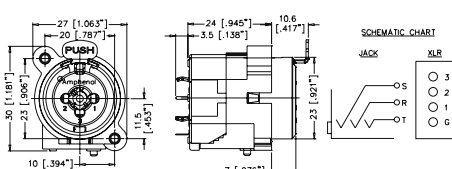
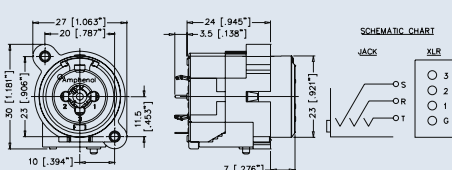
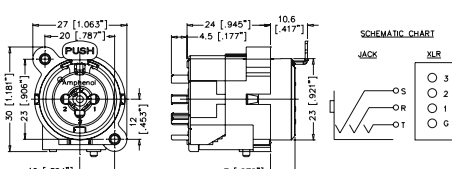
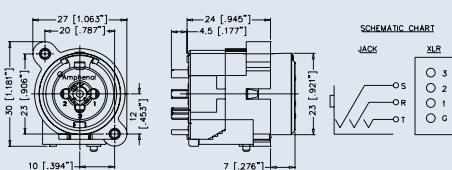
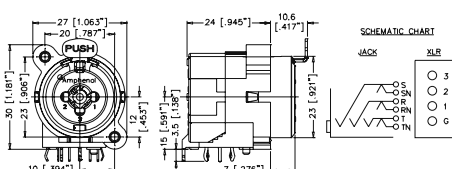
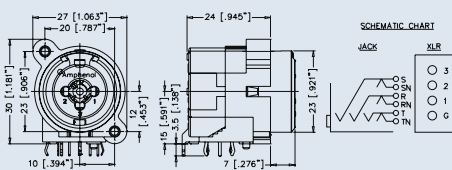
**Part Number Breakdown:** [Page 49](#)

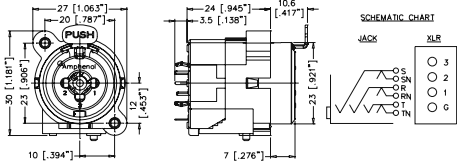
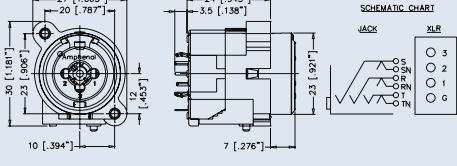
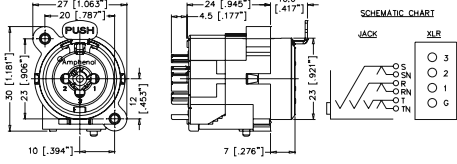
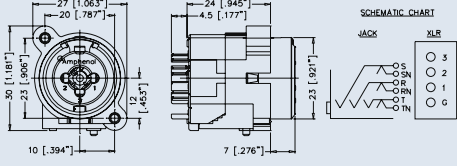
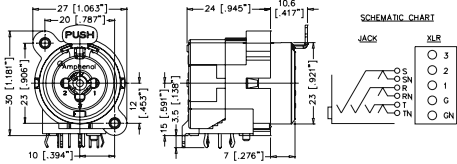
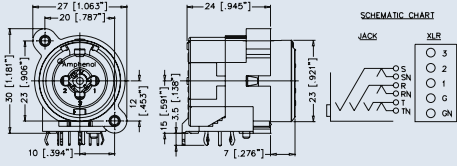
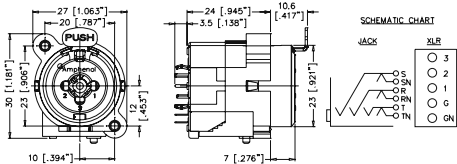
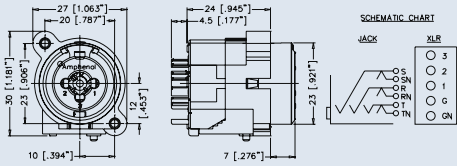
**Specifications:** [Page 51](#)

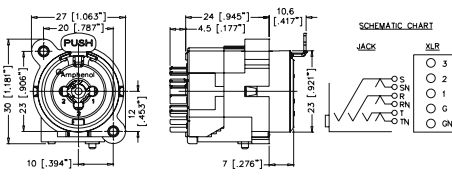
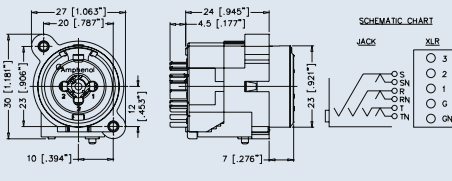
**PCB Footprints:** [Page 50](#)

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

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

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

| PRODUCT - FIGURE                                                                    | DRAWING                                                                             | Dimensions in mm (inches) | DESCRIPTION                                                                                                                | VARIATIONS                     | PART NUMBER   |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------------|---------------|
|    |    |                           | XLR 3 pole female receptacle with 1/4" switching stereo jack, Vertical PCB mount, Bulk Pack                                | Latching                       | ACJC9V BULK   |
|    |    |                           | XLR 3 pole female receptacle with 1/4" switching stereo jack, Vertical PCB mount, Bulk Pack                                | Non-latching, Retention Spring | ACJC9VL BULK  |
|    |    |                           | XLR 3 pole female receptacle with 1/4" switching stereo jack, Solder Contacts, Bulk Pack                                   | Latching                       | ACJC9S BULK   |
|   |  |                           | XLR 3 pole female receptacle with 1/4" switching stereo jack, Solder Contacts, Bulk Pack                                   | Non-latching, Retention Spring | ACJC9SL BULK  |
|  |  |                           | XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Horizontal PCB mount, Bulk Pack | Latching                       | ACJC10H BULK  |
|  |  |                           | XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Horizontal PCB mount, Bulk Pack | Non-latching, Retention Spring | ACJC10HL BULK |
|  |  |                           | XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Vertical PCB mount, Bulk Pack   | Latching                       | ACJC10V BULK  |
|  |  |                           | XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Vertical PCB mount, Bulk Pack   | Non-latching, Retention Spring | ACJC10VL BULK |

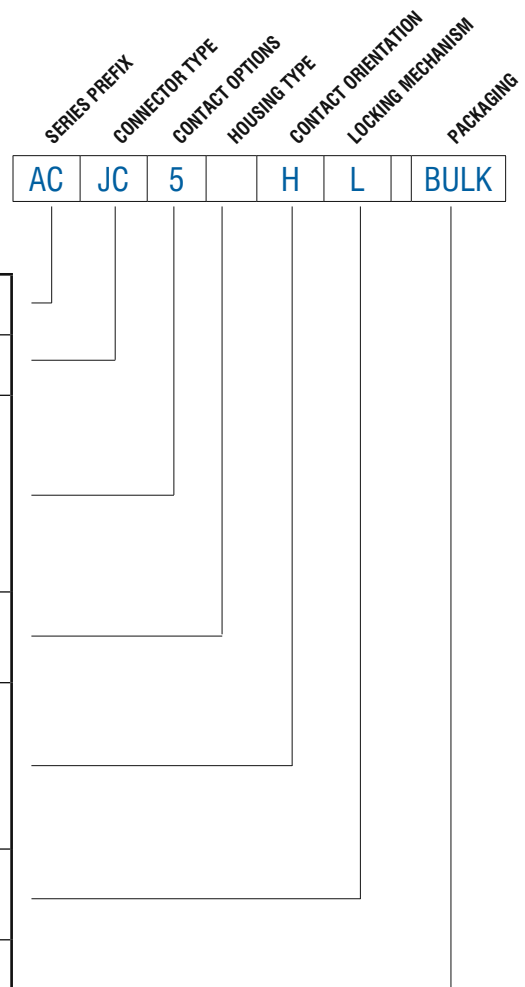
| PRODUCT - FIGURE                                                                  | DRAWING                                                                           | DESCRIPTION                                                                                                           | VARIATIONS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

## PART NUMBER BREAKDOWN

### AC SERIES THERMOPLASTIC C TYPE

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

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





## STANDARD DATA C TYPE CHASSIS RECEPTACLES

|                            |                                              | VALUE                                                                          |                                              |
|----------------------------|----------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------|
|                            |                                              | LOW PROFILE TYPE                                                               | STANDARD C TYPE                              |
| GENERAL CHARACTERISTICS    | Number of contacts                           | 5, 6, 9 or 10                                                                  |                                              |
|                            | Termination                                  | Printed Circuit Board (PCB)                                                    | Printed Circuit Board (PCB) or Solder Bucket |
|                            | Flammability                                 | UL 94HB                                                                        |                                              |
|                            | Environmental                                | Complies with EU RoHS 2 Directive 2011/65/EU                                   |                                              |
| ELECTRICAL CHARACTERISTICS | Service Voltage RMS                          | 50V                                                                            |                                              |
|                            | Test Voltage AC RMS                          | 1500V                                                                          |                                              |
|                            | Current carrying capacity                    | 7.5A                                                                           |                                              |
|                            | Typical Contact Resistance                   | ≤50mΩ                                                                          |                                              |
|                            | Insulation Resistance (initial)              | > 0.5GΩ                                                                        |                                              |
|                            | Insulation Resistance (after damp heat test) | > 0.2GΩ                                                                        |                                              |
| CLIMATIC CHARACTERISTICS   | Protection Class                             | IP40                                                                           |                                              |
|                            | Operating Temperature                        | -25°C to +70°C                                                                 |                                              |
| MECHANICAL CHARACTERISTICS | Weight**                                     | 9.2g (0.02lb)                                                                  | 14g (0.030lb)                                |
|                            | Retention Spring separating force            | ≥20N                                                                           |                                              |
|                            | Mounting Screw torque max.                   | 1.5Nm                                                                          |                                              |
|                            | Mechanical Operations                        | 1500 mating cycles                                                             |                                              |
|                            | Fastening***                                 | Self-Tapping PT screw with thread 2.9 x 1.06 and of Tri-rondular configuration |                                              |
| MATERIALS                  | Connector Shell                              | PA6.6 + 30% glass fibre reinforced, UL94HB                                     | PA6.6 + 20% glass fibre reinforced, UL94HB   |
|                            | Shell Finish                                 |                                                                                | Black                                        |
|                            | Insulators                                   | PA6.6 glass fibre reinforced, UL94HB                                           | PA6.6 + 20% glass fibre reinforced, UL94HB   |
|                            | XLR Contact                                  |                                                                                |                                              |
|                            | Material                                     | Bronze                                                                         |                                              |
|                            | Plating                                      | Gold over Nickel plated                                                        |                                              |
|                            | Jack Contact                                 |                                                                                |                                              |
|                            | Material                                     | Bronze                                                                         | Brass                                        |
|                            | Plating                                      | Gold over Nickel plated                                                        | Silver over Copper plated                    |
|                            | Latch lock and Spring                        | Nickel Plated                                                                  |                                              |
|                            | Ground element                               | Nickel Plated                                                                  | Silver over Copper plated                    |

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

\*\*\*Refer to Page 132

Rev 6 - 03/2013

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



### SP Series

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

#### Features

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

#### Options

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

### HP Series

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

#### Features

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

### EP Series

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

#### Features

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

#### Options

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

### AP Series

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

#### Features

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

#### Options

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

### Ordering Codes

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

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

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



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

**Features:**

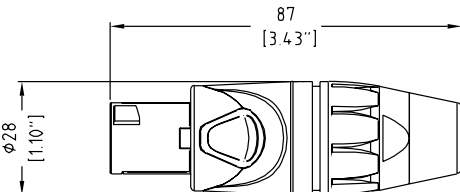
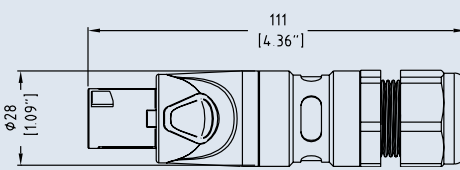
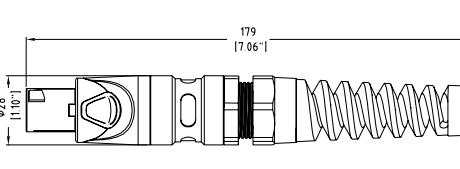
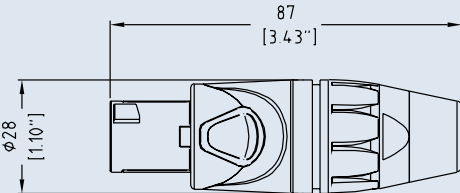
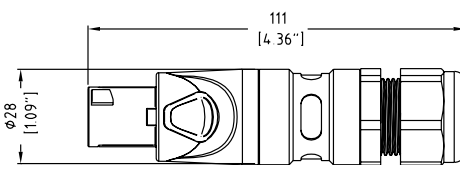
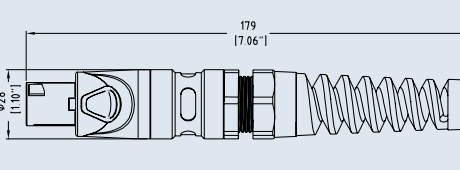
- Quick release, vibration resistant latch lock
- 2 or 4 pole
- Solder tabs, PCB Contacts, Solder or Screw Terminals
- Chuck type or PG Gland cable clamp
- Various mounting hole options
- 30A Current rating
- Thermoplastic or Metal housing (Cable Plugs)
- UL, cUL recognized components (File no. E339831)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

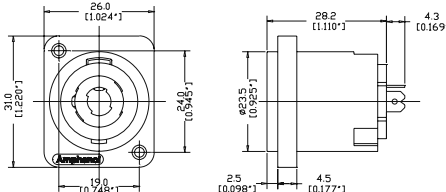
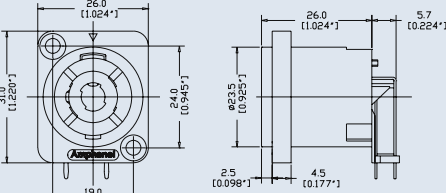
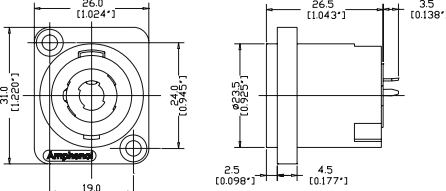
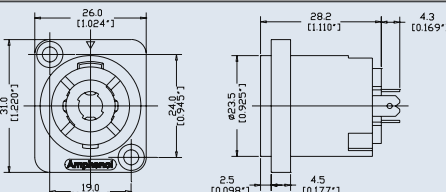
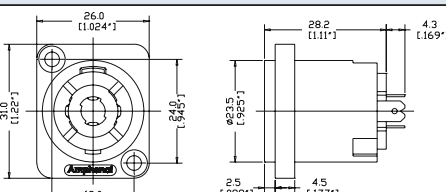
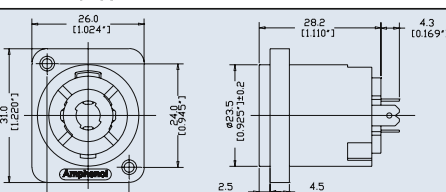
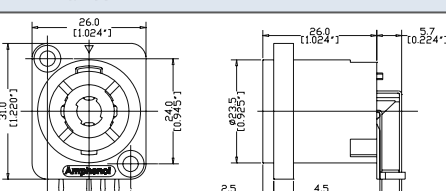
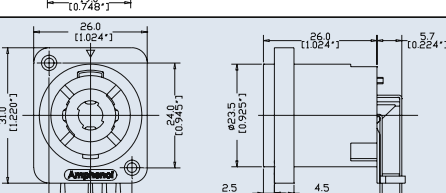


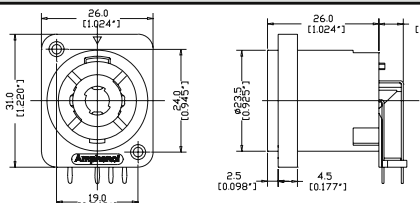
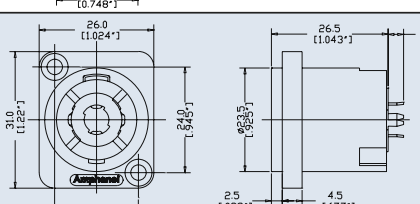
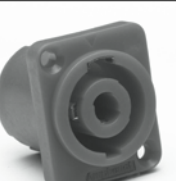
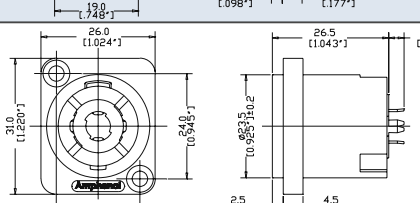
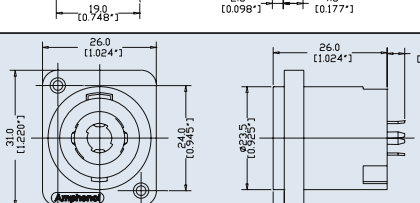
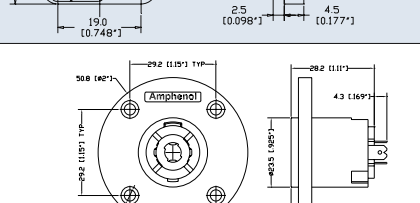
**Part Number Breakdown: Page 57**  
**PCB Footprints: Page 59**

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

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

| PRODUCT - FIGURE                                                                    | DRAWING<br>Dimensions in mm (inches)                                                | DESCRIPTION                                                                                      | CONTACT<br>TYPE | SHELL<br>COLOUR | PART NUMBER |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------|-----------------|-------------|
|    |    | 4 pole, Cable connector,<br>Thermoplastic black<br>shell, Blue sleeve                            | Screw           | Black           | SP-4-F      |
|                                                                                     |                                                                                     |                                                                                                  | Solder          | Black           | SP-4-FS     |
|    |    | 4 pole, Cable connector,<br>Thermoplastic black<br>shell, Blue sleeve, PG<br>Gland               | Screw           | Black           | SP-4-FG     |
|                                                                                     |                                                                                     |                                                                                                  | Solder          | Black           | SP-4-FSG    |
|    |    | 4 pole, Cable connector,<br>Thermoplastic black<br>shell, Blue sleeve, PG<br>Gland strain relief | Screw           | Black           | SP-4-FL     |
|                                                                                     |                                                                                     |                                                                                                  | Solder          | Black           | SP-4-FSL    |
|  |   | 4 pole, Cable connector,<br>Metal shell, Blue sleeve                                             | Screw           | Nickel          | SP-4-FN     |
|                                                                                     |                                                                                     |                                                                                                  | Solder          | Nickel          | SP-4-FNS    |
|                                                                                     |                                                                                     |                                                                                                  | Screw           | Black           | SP-4-FB     |
|                                                                                     |                                                                                     |                                                                                                  | Solder          | Black           | SP-4-FBS    |
|  |  | 4 pole, Cable connector,<br>Metal shell, Blue sleeve,<br>PG Gland                                | Screw           | Nickel          | SP-4-FNG    |
|                                                                                     |                                                                                     |                                                                                                  | Solder          | Nickel          | SP-4-FNSG   |
|                                                                                     |                                                                                     |                                                                                                  | Screw           | Black           | SP-4-FBG    |
|                                                                                     |                                                                                     |                                                                                                  | Solder          | Black           | SP-4-FBSG   |
|  |  | 4 pole, Cable connector,<br>Metal shell, Blue sleeve,<br>PG Gland strain relief                  | Screw           | Nickel          | SP-4-FNL    |
|                                                                                     |                                                                                     |                                                                                                  | Solder          | Nickel          | SP-4-FNSL   |
|                                                                                     |                                                                                     |                                                                                                  | Screw           | Black           | SP-4-FBL    |
|                                                                                     |                                                                                     |                                                                                                  | Solder          | Black           | SP-4-FBSL   |

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

| PRODUCT - FIGURE                                                                    |                                                                                     | DESCRIPTION                                                | VARIATIONS | PART NUMBER |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------|------------|-------------|
|    |    | 4 pole, D flange,<br>Self Tapping holes,<br>Horizontal PCB | Black      | SP-4-MDHT   |
|    |    | 4 pole, D flange,<br>Thru holes,<br>Vertical PCB           | Black      | SP-4-MDV    |
|    |    | 4 pole, D flange,<br>Thru holes,<br>Vertical PCB           | Red        | SP-4-MDV-2  |
|   |   | 4 pole, D flange,<br>Self Tapping holes,<br>Vertical PCB   | Grey       | SP-4-MDVT-8 |
|  |  | 4 pole, EP flange,<br>Thru holes,<br>Solder tabs 3/16"     | Black      | SP-4-MC     |

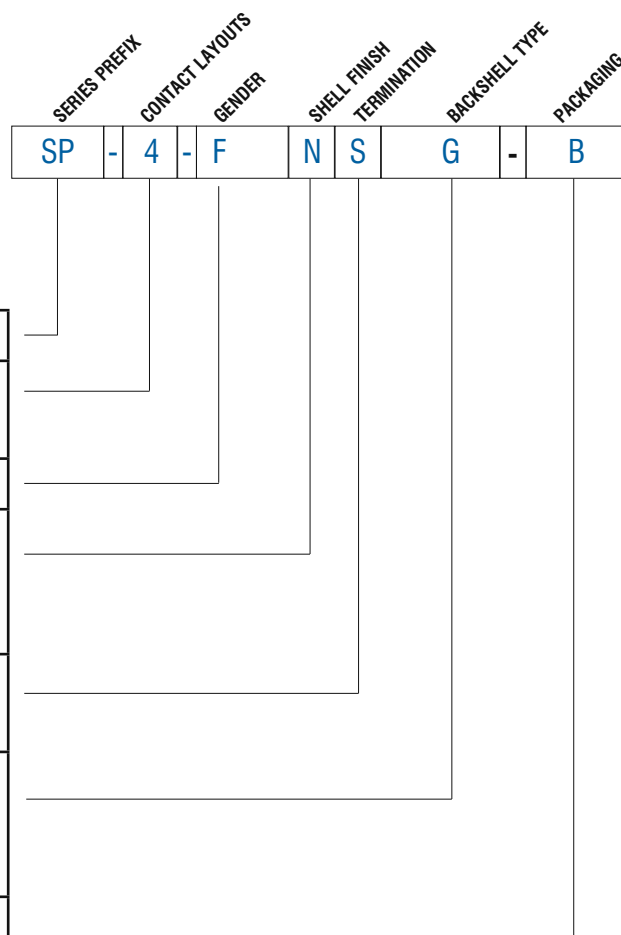
## PART NUMBER BREAKDOWN

### SP SERIES - CABLE CONNECTORS

E. G. **SP-4-FNSG**

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

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

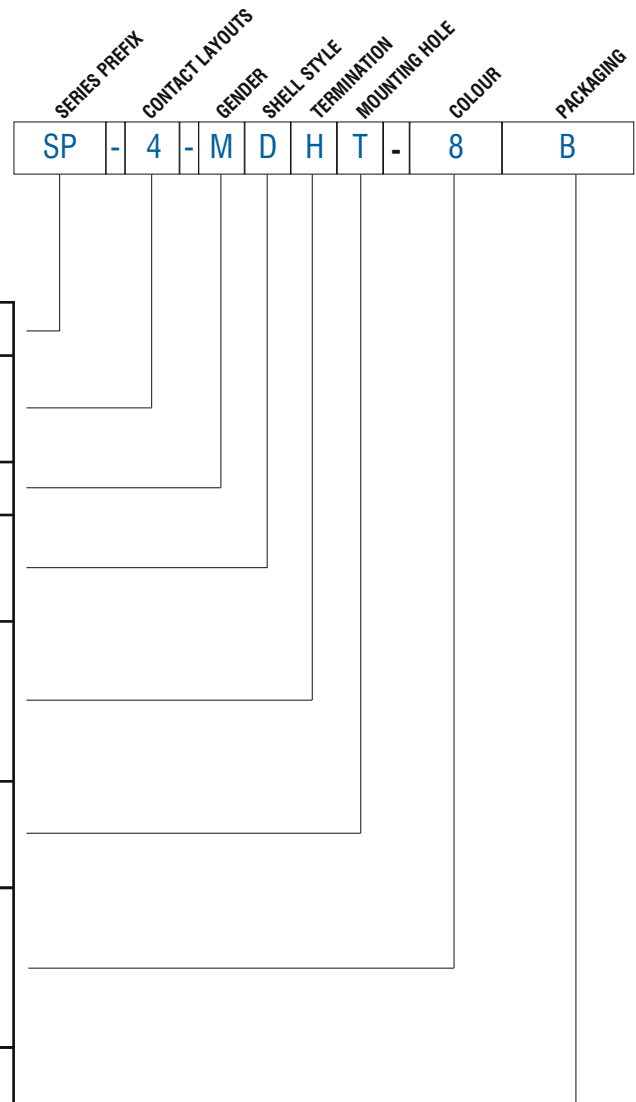


## PART NUMBER BREAKDOWN

### SP SERIES - CHASSIS CONNECTORS

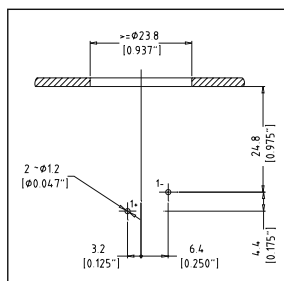
E. G. **SP-4-MDHT-8B**  
**SP** (Series Prefix), **4** contacts, **M** (Chassis Connector), **D** (D Shell), **H** (Horizontal Printed Circuit Board, Self **T**apping mounting holes - **8** (Grey), **B** Bulk Packaged.

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

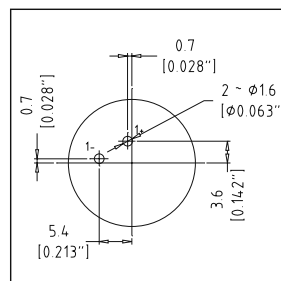


## SP SERIES

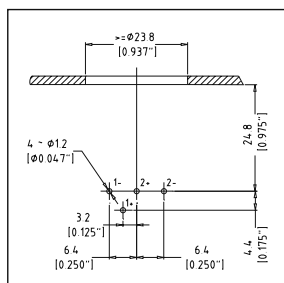
SP-2-MDH



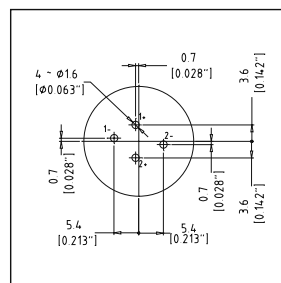
SP-2-MDV



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

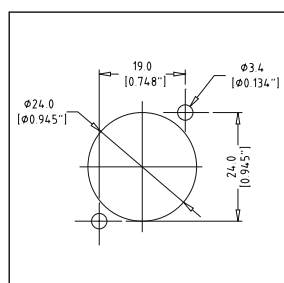


SP-4-MDV  
SP-4-MDV-2  
SP-4-MDVT-8

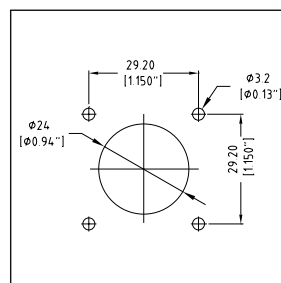


## SP SERIES PANEL CUTOUT

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

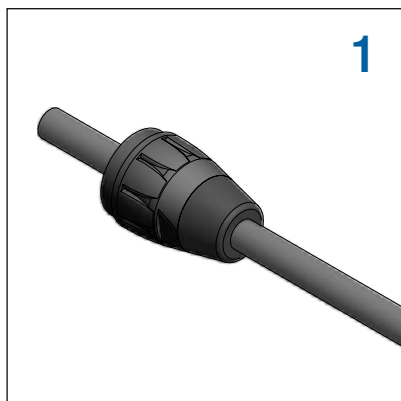


SP-4-MC



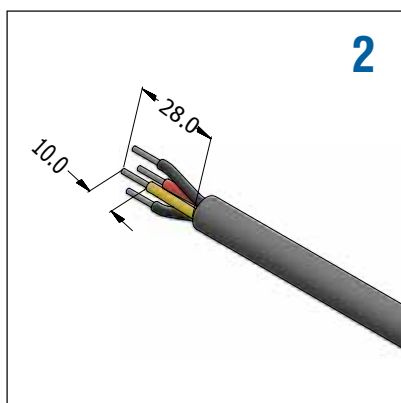
## PI 1070 ASSEMBLY INSTRUCTIONS

SP SERIES CABLE CONNECTOR



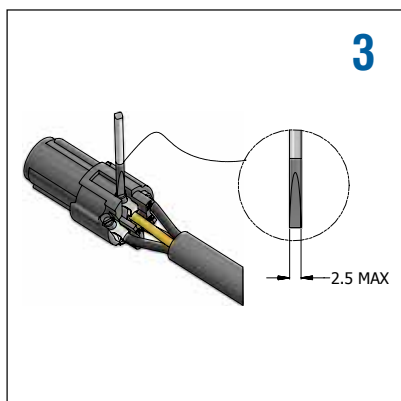
1

Slide the nut onto the cable



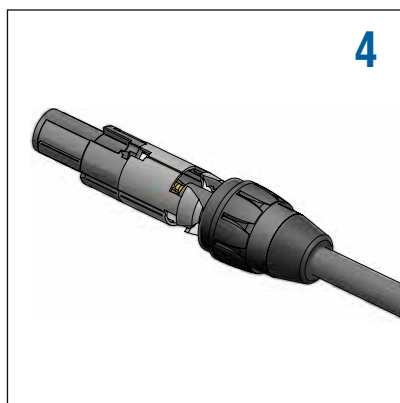
2

Strip the cable and twist the conductors.



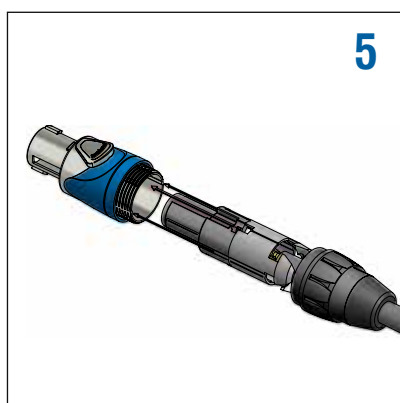
3

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



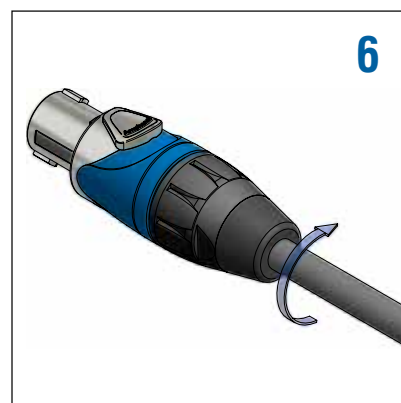
4

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



5

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



6

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

## STANDARD DATA SP SERIES CONNECTORS

|                                   |                                                                              | VALUE                                                                                                          |
|-----------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>GENERAL CHARACTERISTICS</b>    | Number of contacts                                                           | 2 or 4                                                                                                         |
|                                   | Termination (Chassis)                                                        | Printed Circuit Board (PCB) or Solder Tabs 3/16"                                                               |
|                                   | Termination (Cable Plugs)                                                    | Screw or Solder Terminals                                                                                      |
|                                   | Flammability                                                                 | UL94HB                                                                                                         |
|                                   | Environmental                                                                | Complies with EU RoHS 2 Directive 2011/65/EU                                                                   |
| <b>ELECTRICAL CHARACTERISTICS</b> | Service Voltage RMS                                                          | 133V <sup>1)</sup>                                                                                             |
|                                   | Test Voltage AC RMS                                                          | 1500V                                                                                                          |
|                                   | Current carrying capacity                                                    | 30A                                                                                                            |
|                                   | Typical Contact Resistance                                                   | ≤3mΩ                                                                                                           |
|                                   | Insulation Resistance (initial)                                              | ≥2GΩ                                                                                                           |
|                                   | Insulation Resistance (after damp heat test)                                 | ≥1GΩ                                                                                                           |
| <b>CLIMATIC CHARACTERISTICS</b>   | Protection Class                                                             | IP54                                                                                                           |
|                                   | Operating Temperature                                                        | -25 °C to +75 °C (-13°F to +167°F)                                                                             |
| <b>MECHANICAL CHARACTERISTICS</b> | Weight** - Chassis Connectors                                                | 12g (0.026lb)                                                                                                  |
|                                   | Weight** - Cable Plug<br>- Thermoplastic<br>- Metal                          | 44g (0.097lb)<br>65g (0.143lb)                                                                                 |
|                                   | Weight** - Cable Plug PG<br>- Thermoplastic<br>- Metal                       | 44g (0.097lb)<br>65g (0.143lb)                                                                                 |
|                                   | Weight** - Cable Plug PG S/Relief<br>- Thermoplastic<br>- Metal              | 68g (0.150lb)<br>89g (0.196lb)                                                                                 |
|                                   | Typical Cable retention force                                                | 200N<br>(Subject to cable material and O.D.)                                                                   |
|                                   | Cable O.D range<br>- Chuck Clamp<br>- PG16 Gland<br>- PG16 Gland S/Relief    | 2 pole<br>5-10mm (0.19" - 0.39")<br>6-12mm (0.23" - 0.47")<br>9-14mm (0.35" - 0.55")                           |
|                                   |                                                                              | 4 pole<br>9-14mm (0.35" - 0.55")<br>8-14mm (0.31" - 0.55")<br>9-14mm (0.35" - 0.55")                           |
|                                   | Conductor Size<br>- Screw Terminals<br>- Solder Bucket                       | 1.5mm <sup>2</sup> - 4mm <sup>2</sup> (AWG16 - AWG12)<br>1.5mm <sup>2</sup> - 6mm <sup>2</sup> (AWG16 - AWG10) |
| <b>MATERIALS</b>                  | Connector Shell / Finish<br>- Cable Plug Thermoplastic<br>- Cable Plug Metal | PA66 GF30 / Black<br>Diecast Zinc Alloy / Nickel or Black                                                      |
|                                   | Insulators<br>- Chassis<br>- Cable Plugs                                     | PA66 GF20<br>PA66 GF30                                                                                         |
|                                   | Cable Boot / Backshell                                                       | Santoprene / PA6 GF 15                                                                                         |
|                                   | Cable Clamp (Chuck)                                                          | P.O.M                                                                                                          |
|                                   | Cable Clamp (PG)                                                             | Polyamide / EPDM                                                                                               |
|                                   | Sleeve                                                                       | PBT                                                                                                            |
|                                   | Contact Chassis<br>- Material / Plating                                      | Phosphor Bronze / Silver                                                                                       |
|                                   | Contact Cable Plug<br>- Material / Plating                                   | Brass / Silver                                                                                                 |

Rev 5 - 03/2013

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

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

# Amphenol

EP / AP / SP / HP SERIES

## HP POWER CONNECTORS



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

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

### Features:

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



**Specifications: Page 63**

| PRODUCT - FIGURE | DRAWING | Dimensions in mm (inches) | DESCRIPTION                                                                                           | CONTACT TYPE     | SHELL COLOUR | PART NUMBER |
|------------------|---------|---------------------------|-------------------------------------------------------------------------------------------------------|------------------|--------------|-------------|
|                  |         |                           | 3 pole, Cable connector, Thermoplastic shell, Blue sleeve, keyed for power-in                         | Screw            | Blue         | HP-3-F      |
|                  |         |                           | 3 pole, Cable connector, Thermoplastic shell, Grey sleeve, keyed for power-out                        | Screw            | Grey         | HP-3-FG     |
|                  |         |                           | 3 pole, Chassis connector, Thermoplastic shell, Blue, keyed for power-in                              | Solder Tab 3/16" | Blue         | HP-3-MD     |
|                  |         |                           | 3 pole, Chassis connector, Thermoplastic shell, Grey, keyed for power-out                             | Solder Tab 3/16" | Grey         | HP-3-MDG    |
|                  |         |                           | 3 pole, Chassis connector, Thermoplastic shell, Blue, keyed for power-in, without insulation divider  | Solder Tab 3/16" | Blue         | HP-3-MDW    |
|                  |         |                           | 3 pole, Chassis connector, Thermoplastic shell, Grey, keyed for power-out, without insulation divider | Solder Tab 3/16" | Grey         | HP-3-MDGW   |

## STANDARD DATA HP SERIES CONNECTORS

|                                   |                                                              | VALUE                                                       |
|-----------------------------------|--------------------------------------------------------------|-------------------------------------------------------------|
| <b>GENERAL CHARACTERISTICS</b>    | Number of contacts                                           | 2 + PE                                                      |
|                                   | Termination                                                  | Screw or Solder Tab 3/16"                                   |
|                                   | Flammability                                                 | UL94V-0                                                     |
|                                   | Environmental                                                | Complies with EU RoHS 2 Directive 2011/65/EU                |
| <b>ELECTRICAL CHARACTERISTICS</b> | Rated Operating Voltage                                      | 250VAC                                                      |
|                                   | Test Voltage AC RMS                                          | 1500V                                                       |
|                                   | Current carrying capacity                                    | 25A                                                         |
|                                   | Typical Contact Resistance                                   | ≤3mΩ                                                        |
|                                   | Insulation Resistance (initial)                              | ≥2GΩ                                                        |
|                                   | Insulation Resistance (after damp heat test)                 | ≥1GΩ                                                        |
| <b>CLIMATIC CHARACTERISTICS</b>   | Protection Class                                             | IP54                                                        |
|                                   | Operating Temperature                                        | -25 °C to +75 °C (-13°F to +167°F)                          |
| <b>MECHANICAL CHARACTERISTICS</b> | Weight**<br>- Chassis Connector<br>- Cable Plug              | 12g (0.026lb)<br>32g (0.070lb)                              |
|                                   | Typical Cable retention force                                | 200N<br>(Subject to cable material and O.D.)                |
|                                   | Cable O.D range<br>- Blue Chuck Clamp<br>- Black Chuck Clamp | 5mm - 7.5mm (0.19" - 0.29")<br>7.5mm - 15mm (0.29" - 0.59") |
|                                   | Conductor Size<br>- Screw Terminals                          | 2.5mm <sup>2</sup> (AWG14)                                  |
|                                   |                                                              |                                                             |
| <b>MATERIALS</b>                  | Connector Shell / Finish                                     | PA66 GF30 / Black                                           |
|                                   | Insulators                                                   | PA66 GF30                                                   |
|                                   | Cable Boot / Backshell                                       | Santoprene / PBT                                            |
|                                   | Cable Clamp (Chuck)                                          | P.O.M                                                       |
|                                   | Contact Plug<br>- Material / Plating                         | Brass / Silver                                              |
|                                   | Contact Chassis<br>- Material / Plating                      | Phosphor Bronze / Silver                                    |

Rev 3 - 05/2015

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



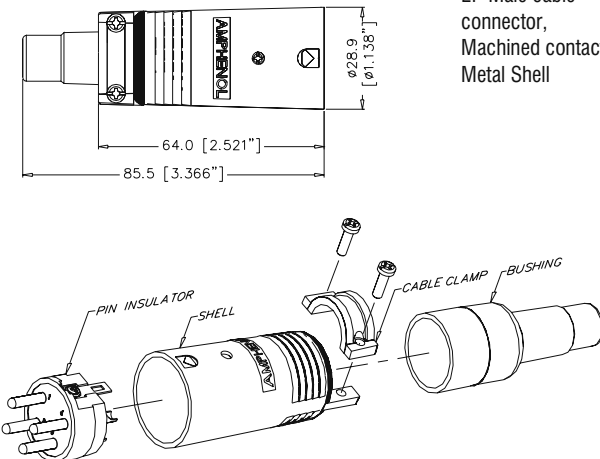
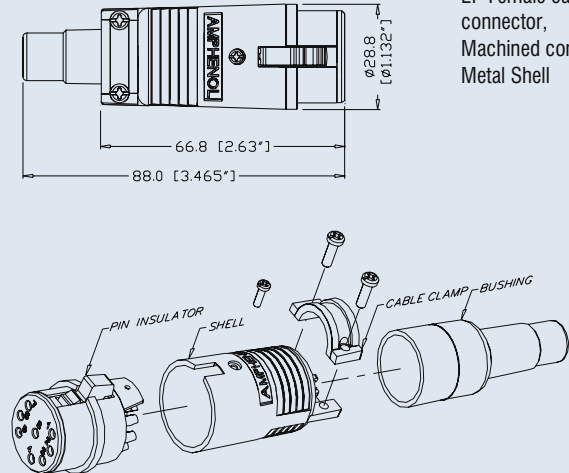
The EP Series has set the standard in high performance speaker connectors. Apart from its durability and strength, it offers consistent superior power handling capabilities.

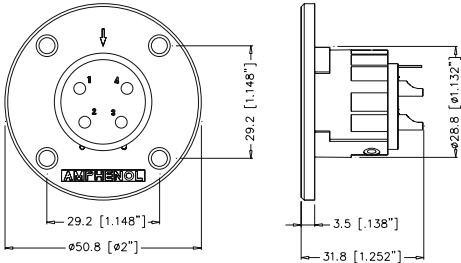
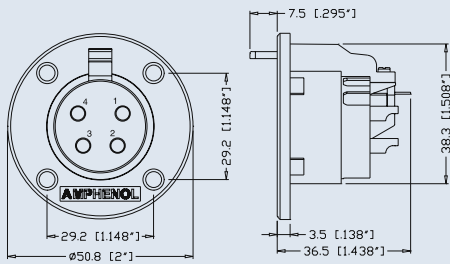
**Features:**

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

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

**Specifications:** Page 67

| PRODUCT - FIGURE                                                                                                            | DRAWING                                                                             | DESCRIPTION                                                              | VARIATIONS           | PART NUMBER |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------|-------------|
|  <p><b>ISO ASSEMBLY OF EP MALE</b></p>    |  | <p>EP Male cable connector,<br/>Machined contacts,<br/>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,<br/>Machined contacts,<br/>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                                                                             | Dimensions in mm (inches)                                                                                                                    | DESCRIPTION                                                                  | VARIATIONS           | PART NUMBER |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------|-------------|
|    |    | <p>29.2 [1.148"]</p> <p>29.2 [1.148"]</p> <p>ø50.8 [ø2"]</p> <p>3.5 [.138"]</p> <p>31.8 [1.252"]</p> <p>ø28.8 [ø1.132"]</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>7.5 [.295"]</p> <p>29.2 [1.148"]</p> <p>29.2 [1.148"]</p> <p>ø50.8 [ø2"]</p> <p>3.5 [.138"]</p> <p>36.5 [1.438"]</p> <p>38.3 [1.506"]</p> | <p>EP Female chassis mount, Round Flange, Machined contacts, Metal Shell</p> | 3 pole nickel finish | EP-3-13P    |
|                                                                                     |                                                                                     |                                                                                                                                              |                                                                              | 3 pole black finish  | EP-3-13PB   |
|                                                                                     |                                                                                     |                                                                                                                                              |                                                                              | 4 pole nickel finish | EP-4-13P    |
|                                                                                     |                                                                                     |                                                                                                                                              |                                                                              | 4 pole black finish  | EP-4-13PB   |
|                                                                                     |                                                                                     |                                                                                                                                              |                                                                              | 5 pole nickel finish | EP-5-13P    |
|                                                                                     |                                                                                     |                                                                                                                                              |                                                                              | 5 pole black finish  | EP-5-13PB   |
|                                                                                     |                                                                                     |                                                                                                                                              |                                                                              | 6 pole nickel finish | EP-6-13P    |
|                                                                                     |                                                                                     |                                                                                                                                              |                                                                              | 6 pole black finish  | EP-6-13PB   |
|                                                                                     |                                                                                     |                                                                                                                                              |                                                                              | 8 pole nickel finish | EP-8-13P    |
|                                                                                     |                                                                                     |                                                                                                                                              |                                                                              | 8 pole black finish  | EP-8-13PB   |





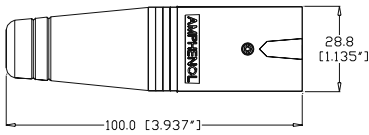
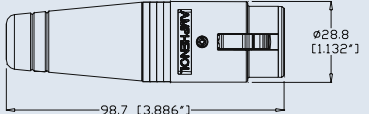
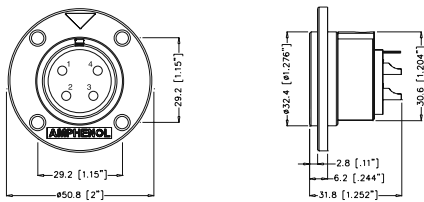
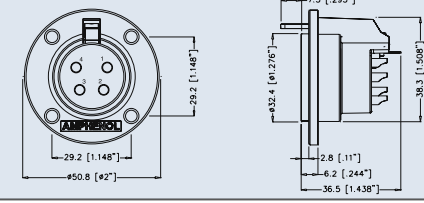
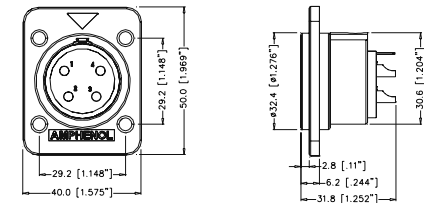
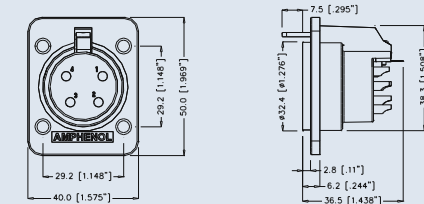
The AP Series provides the same power handling performance as the EP Series in a cost effective, yet durable Thermoplastic housing.

**Features:**

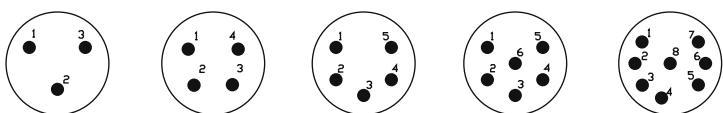
- Solder Bucket connections.
- Precision machined contacts.
- Thermoplastic Housings
- High current contacts
- Male & Female Cable and Chassis connectors available.

**Specifications: Page 67**

**Panel Cutouts: Page 68**

| PRODUCT - FIGURE                                                                    | DRAWING                                                                             | Dimensions in mm (inches)                                                                                                          | DESCRIPTION                                                                                | VARIATIONS                           | PART NUMBER                              |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------|
|    |    | 28.8 [1.135"]<br>100.0 [3.937"]                                                                                                    | AP Male cable connector, Machined contacts, Thermoplastic Black shell.                     | 4 pole<br>5 pole<br>6 pole<br>8 pole | AP-4-12<br>AP-5-12<br>AP-6-12<br>AP-8-12 |
|  |  | 28.8 [1.132"]<br>98.7 [3.886"]                                                                                                     | AP Female cable connector, Machined contacts, Thermoplastic Black shell.                   | 4 pole<br>5 pole<br>6 pole<br>8 pole | AP-4-11<br>AP-5-11<br>AP-6-11<br>AP-8-11 |
|  |  | 29.2 [1.15"]<br>432.4 [16.23"]<br>30.6 [1.204"]<br>2.8 [0.11"]<br>6.2 [0.244"]<br>31.8 [1.252"]<br>40.0 [1.575"]                   | AP Male chassis mount, Round Flange, Machined contacts, Thermoplastic Black shell.         | 4 pole<br>5 pole<br>6 pole<br>8 pole | AP-4-14<br>AP-5-14<br>AP-6-14<br>AP-8-14 |
|  |  | 29.2 [1.148"]<br>432.4 [16.23"]<br>38.3 [1.508"]<br>2.8 [0.11"]<br>6.2 [0.244"]<br>36.5 [1.438"]<br>40.0 [1.575"]                  | AP Female chassis mount, Round Flange, Machined contacts, Thermoplastic Black shell.       | 4 pole<br>5 pole<br>6 pole<br>8 pole | AP-4-13<br>AP-5-13<br>AP-6-13<br>AP-8-13 |
|  |  | 29.2 [1.148"]<br>50.0 [1.969"]<br>432.4 [16.23"]<br>30.6 [1.204"]<br>2.8 [0.11"]<br>6.2 [0.244"]<br>31.8 [1.252"]<br>40.0 [1.575"] | AP Male chassis mount, Rectangular Flange, Machined contacts, Thermoplastic Black shell.   | 4 pole<br>5 pole<br>6 pole<br>8 pole | AP-4-22<br>AP-5-22<br>AP-6-22<br>AP-8-22 |
|  |  | 29.2 [1.148"]<br>50.0 [1.969"]<br>432.4 [16.23"]<br>38.3 [1.508"]<br>2.8 [0.11"]<br>6.2 [0.244"]<br>36.5 [1.438"]<br>40.0 [1.575"] | AP Female chassis mount, Rectangular Flange, Machined contacts, Thermoplastic Black shell. | 4 pole<br>5 pole<br>6 pole<br>8 pole | AP-4-21<br>AP-5-21<br>AP-6-21<br>AP-8-21 |

## STANDARD DATA EP/AP

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

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

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



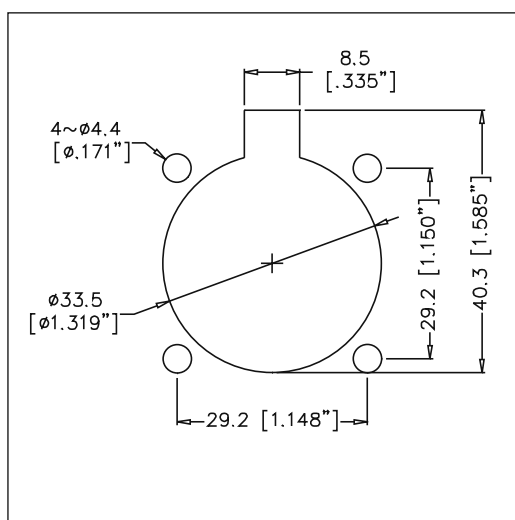
## STANDARD DATA EP/AP (CONT'D)

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

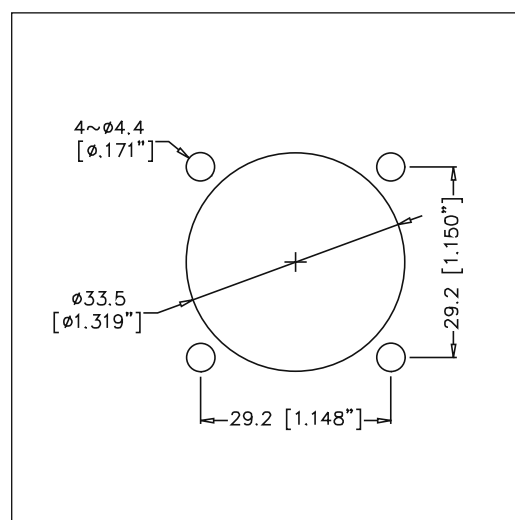
Rev 3 - 03/2013

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

EP 13/AP 13/AP 21



EP 14/AP 14/AP 22





## XLRnet CONNECTORS

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

### Features

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

### Options

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

### Ordering Codes

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

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

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





## XLRnet SERIES

**Features/Benefits:**

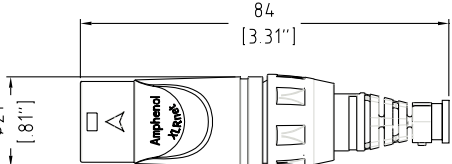
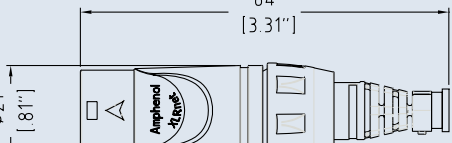
- XLR RJ45 Cable plug housing.
- Designed for pre-assembled RJ45 cables.
- Quick and simple installation.
- Cost effective method for harsh environments.
- No cabling in field required.
- No tools required for installation.
- Available in Nickel or Black housings.
- Coloured boots / Backshells

**Specifications:** [Page 71](#)

**Part Number Breakdown :** [Page 71](#)

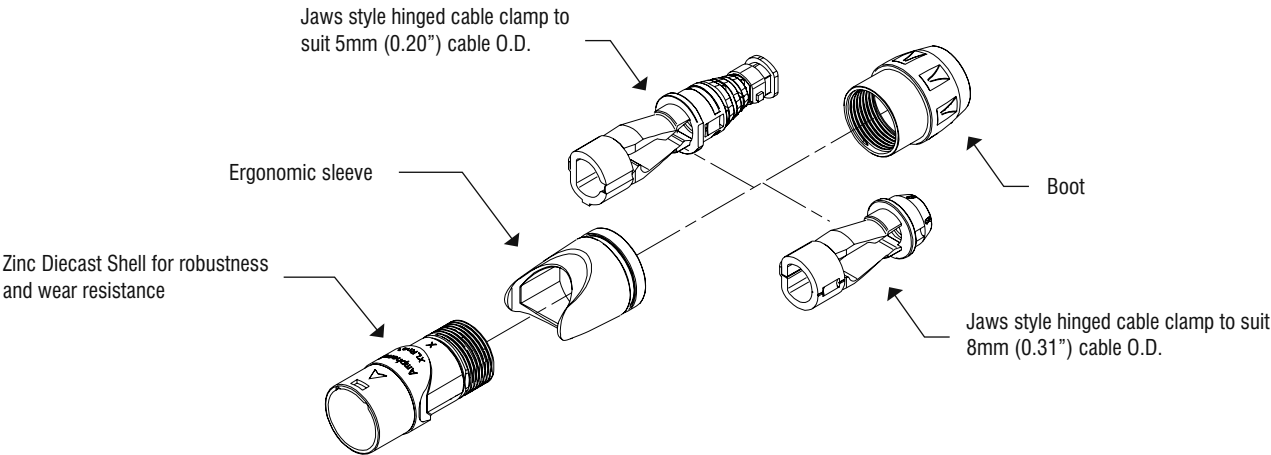
**Assembly Instructions:** [Page 72](#)

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

| PRODUCT - FIGURE                                                                    | DRAWING                                                                             | Dimensions in mm (inches) | DESCRIPTION                                                                     | VARIATIONS | PART NUMBER |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------|---------------------------------------------------------------------------------|------------|-------------|
|    |    | 84 [3.31"]<br>ø21 [0.81"] | XLRnet, XLR cable plug housing to suit pre-assembled RJ45 cables, Nickel Finish | Standard   | RJX8M       |
|  |  | 84 [3.31"]<br>ø21 [0.81"] | XLRnet, XLR cable plug housing to suit pre-assembled RJ45 cables, Black Finish  | Standard   | RJX8MB      |
|                                                                                     |                                                                                     |                           |                                                                                 | Bulk Pack  | RJX8M BULK  |
|                                                                                     |                                                                                     |                           |                                                                                 | Bulk Pack  | RJX8MB BULK |



## ISO VIEW OF RJX8M



## PART NUMBER BREAKDOWN

### XLRnet SERIES

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

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

|               |                 |        |              |           |
|---------------|-----------------|--------|--------------|-----------|
| SERIES PREFIX | CONTACT LAYOUTS | GENDER | SHELL FINISH | PACKAGING |
| RJX           | 8               | M      | B            | BULK      |

## STANDARD DATA XLRnet SERIES

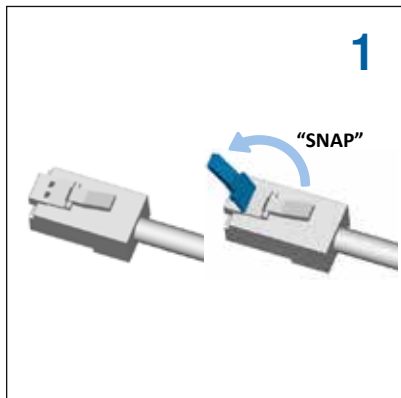


|                                   |                                         | VALUE                                        |
|-----------------------------------|-----------------------------------------|----------------------------------------------|
| <b>GENERAL CHARACTERISTICS</b>    | Termination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

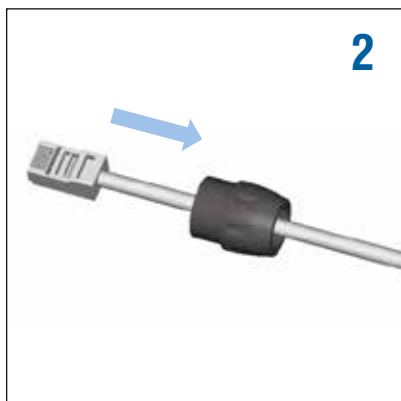
Rev 1 - 03/2013

## XLRnet SERIES CABLE ASSEMBLY INSTRUCTIONS

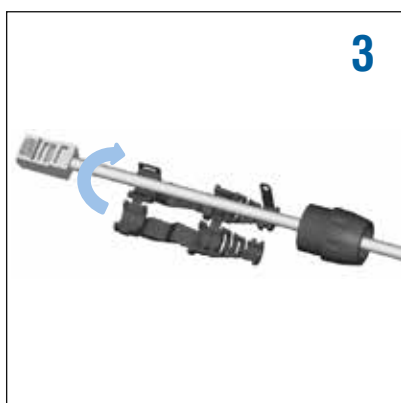


Snap or cut off release tab of the RJ45 plug.

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



Slide the nut (backshell) onto the cable.



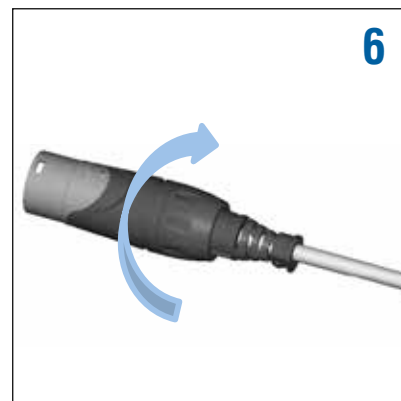
Install the cable clamp-boot.



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



Push clamp-boot & cable together into the shell



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

# Amphenol

## XLrnet CHASSIS MOUNT CONNECTORS



### Features:

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

**Part Number Breakdown: Page 76**

**Specifications: Page 80**

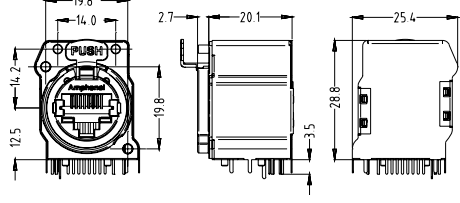
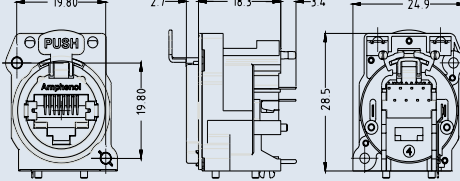
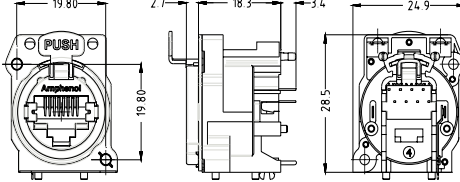
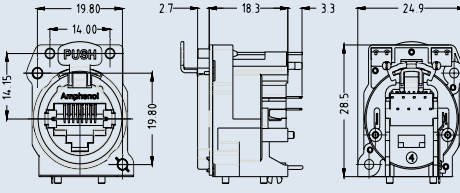
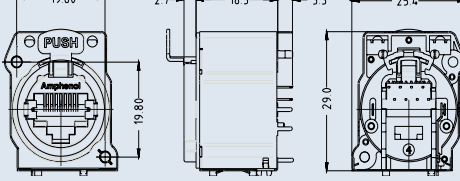
**PCB Footprints: Page 79**

**Recommended Fastener: Page 133**

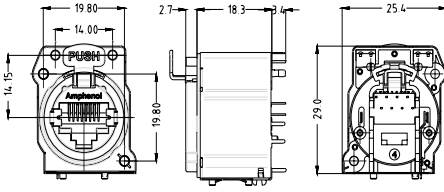
| PRODUCT - FIGURE | DRAWING | Dimensions in mm (inches) | DESCRIPTION                                                                 | TYPE    | LED*<br>LHS/RHS |   | PART NUMBER |
|------------------|---------|---------------------------|-----------------------------------------------------------------------------|---------|-----------------|---|-------------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

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



| PRODUCT - FIGURE                                                                    | DRAWING                                                                             | Dimensions in mm (inches) | DESCRIPTION                                                                       | TYPE    | LED*<br>LHS/RHS |   | PART NUMBER  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------|-----------------------------------------------------------------------------------|---------|-----------------|---|--------------|
|    |    |                           | XLRnet chassis,<br>B type, Shielded Hood,<br>LEDs, Horizontal PCB,<br>Bulk packed | CAT5E   | R               | G | RJX8FB5HRGEB |
|                                                                                     |                                                                                     |                           |                                                                                   |         | R               | Y | RJX8FB5HRYEB |
|                                                                                     |                                                                                     |                           |                                                                                   |         | R               | R | RJX8FB5HRRRB |
|                                                                                     |                                                                                     |                           |                                                                                   |         | G               | R | RJX8FB5HGREB |
|                                                                                     |                                                                                     |                           |                                                                                   |         | G               | Y | RJX8FB5HGYEB |
|                                                                                     |                                                                                     |                           |                                                                                   |         | U               | U | RJX8FB5HUUEB |
|                                                                                     |                                                                                     |                           |                                                                                   | CAT6    | R               | G | RJX8FB6HRGEB |
|                                                                                     |                                                                                     |                           |                                                                                   |         | R               | Y | RJX8FB6HRYEB |
|                                                                                     |                                                                                     |                           |                                                                                   |         | R               | R | RJX8FB6HRRRB |
|                                                                                     |                                                                                     |                           |                                                                                   |         | G               | R | RJX8FB6HGREB |
|                                                                                     |                                                                                     |                           |                                                                                   |         | G               | Y | RJX8FB6HGYEB |
|                                                                                     |                                                                                     |                           |                                                                                   |         | U               | U | RJX8FB6HUUEB |
|   |   |                           | XLRnet chassis, A type,<br>Vertical PCB                                           | Class D | -               | - | RJX8FA3VB    |
|                                                                                     |                                                                                     |                           |                                                                                   | CAT5E   |                 |   | RJX8FA5VB    |
|                                                                                     |                                                                                     |                           |                                                                                   | CAT6    |                 |   | RJX8FA6VB    |
|  |  |                           | XLRnet chassis, B Type,<br>Vertical PCB                                           | Class D | -               | - | RJX8FB3VB    |
|                                                                                     |                                                                                     |                           |                                                                                   | CAT5E   |                 |   | RJX8FB5VB    |
|                                                                                     |                                                                                     |                           |                                                                                   | CAT6    |                 |   | RJX8FB6VB    |
|  |  |                           | XLRnet chassis,<br>B type, LEDs,<br>Vertical PCB,<br>Bulk packed                  | CAT5E   | R               | G | RJX8FB5VRGB  |
|                                                                                     |                                                                                     |                           |                                                                                   |         | R               | Y | RJX8FB5VRYB  |
|                                                                                     |                                                                                     |                           |                                                                                   |         | R               | R | RJX8FB5VRRRB |
|                                                                                     |                                                                                     |                           |                                                                                   |         | G               | R | RJX8FB5VGRB  |
|                                                                                     |                                                                                     |                           |                                                                                   |         | G               | Y | RJX8FB5VGYB  |
|                                                                                     |                                                                                     |                           |                                                                                   |         | U               | U | RJX8FB5VUUB  |
|                                                                                     |                                                                                     |                           |                                                                                   | CAT6    | R               | G | RJX8FB6VRGB  |
|                                                                                     |                                                                                     |                           |                                                                                   |         | R               | Y | RJX8FB6VRYB  |
|                                                                                     |                                                                                     |                           |                                                                                   |         | R               | R | RJX8FB6VRRRB |
|                                                                                     |                                                                                     |                           |                                                                                   |         | G               | R | RJX8FB6VGRB  |
|                                                                                     |                                                                                     |                           |                                                                                   |         | G               | Y | RJX8FB6VGYB  |
|                                                                                     |                                                                                     |                           |                                                                                   |         | U               | U | RJX8FB6VUUB  |
|  |  |                           | XLRnet chassis,<br>B type,<br>Shielded Hood,<br>Vertical PCB,<br>Bulk packed      | Class D | -               | - | RJX8FB3VEB   |
|                                                                                     |                                                                                     |                           |                                                                                   | CAT5E   |                 |   | RJX8FB5VEB   |
|                                                                                     |                                                                                     |                           |                                                                                   | CAT6    |                 |   | RJX8FB6VEB   |

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

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

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

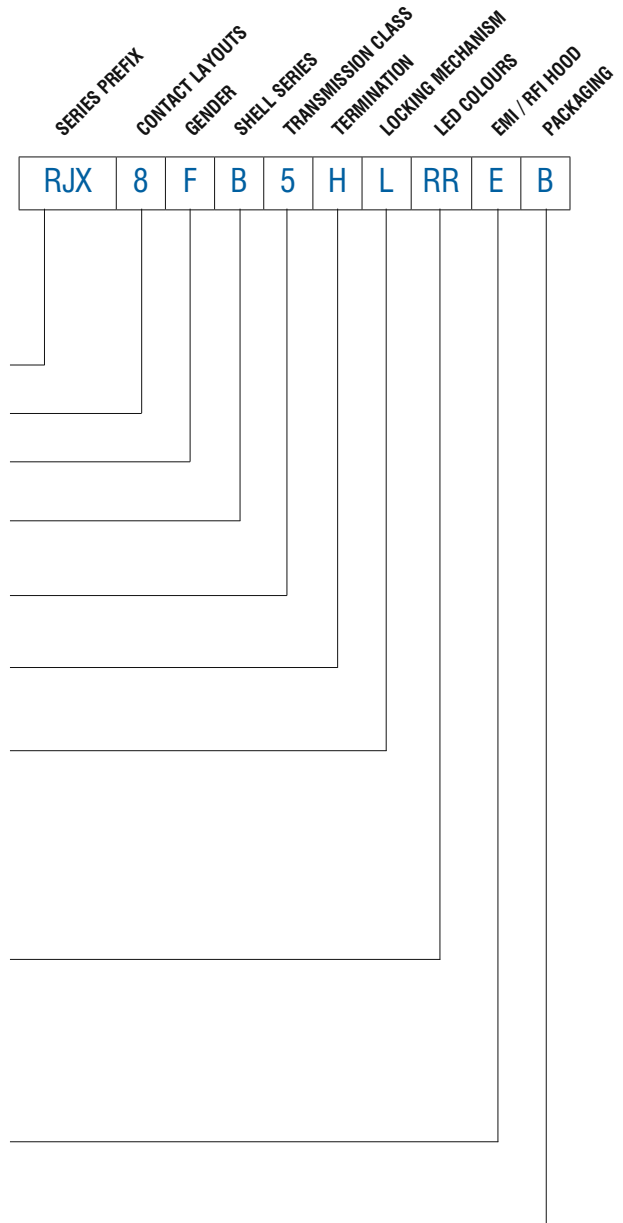


## PART NUMBER BREAKDOWN

XLNnet A AND B TYPE Printed Circuit Board Connectors

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

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



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

# Amphenol

XLRnet CHASSIS CONNECTORS

## D TYPE FLANGE



### Features:

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

**Part Number Breakdown: Page 78**

**Specifications: Page 80**

**PCB Footprints: Page 79**

**Recommended Fastener: Page 133**

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

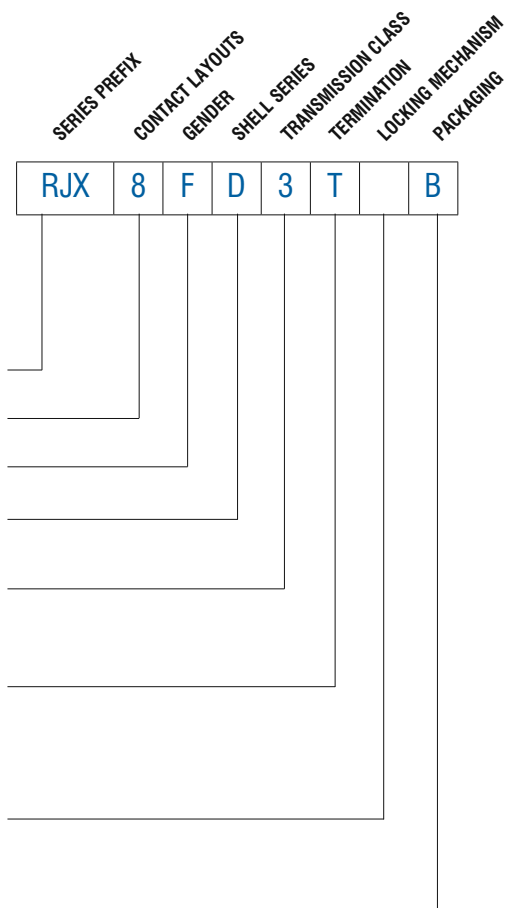


## PART NUMBER BREAKDOWN

### XLRnet D TYPE Chassis Connectors

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

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

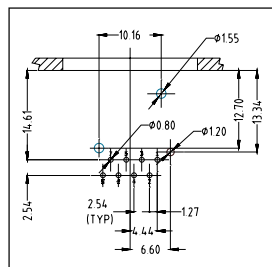


\*Note: LED colours are denoted left to right from the panel side front view.  
Refer Page 79

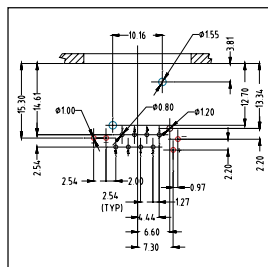
### A, B AND D TYPE FLANGE

## XLRNET A, B AND D TYPE SERIES

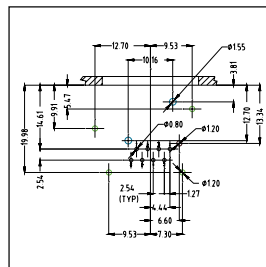
\* Applicable to 3 (Class D), 5 (CAT5E) and 6 (CAT6), where available



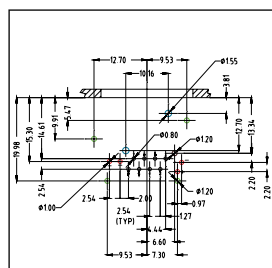
RJX8FA\*H  
RJX8FA\*HB



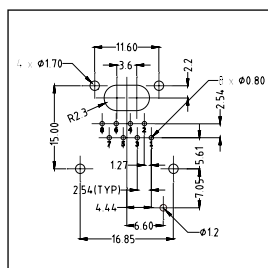
RJX8FB\*HRGB  
RJX8FB\*HRYB  
RJX8FB\*HRRB  
RJX8FB\*HGRB  
RJX8FB\*HGYB  
RJX8FB\*HGGB



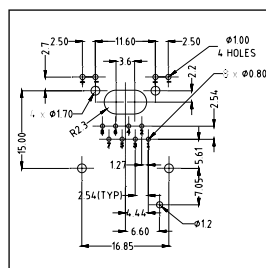
RJX8FB\*HEB



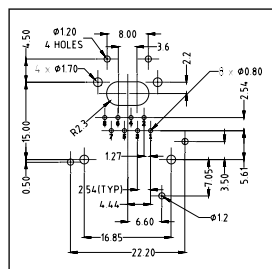
RJX8FB\*HRGEB  
RJX8FB\*HRYEB  
RJX8FB\*HRREB  
RJX8FB\*HGREB  
RJX8FB\*HGWEB  
RJX8FB\*HGGEB



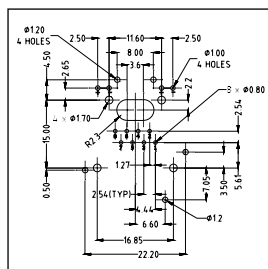
RJX8FA\*VB  
RJX8FB\*VB



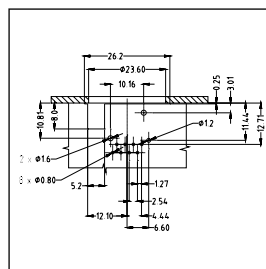
RJX8FB\*VRGB  
RJX8FB\*VRYB  
RJX8FB\*VRRB  
RJX8FB\*VGRB  
RJX8FB\*VGYB  
RJX8FB\*VUUB



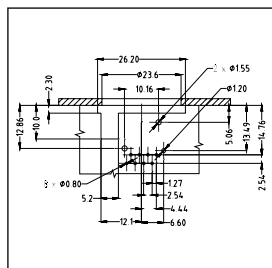
R.JX8FB\*VEB



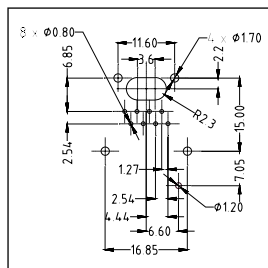
RJX8FB\*VRGEB  
RJX8FB\*VRYEB  
RJX8FB\*VRREB  
RJX8FB\*VGREB  
RJX8FB\*VGYEB  
RJX8FB\*VUUEB



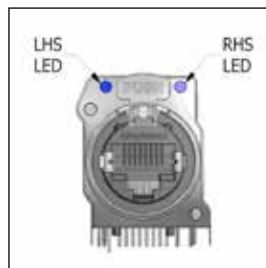
**RJX8FD\*HB**  
(Front  
Mounting)



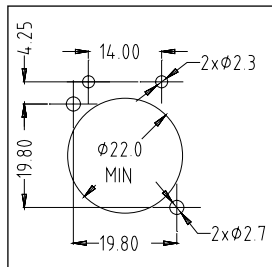
**RJX8FD\*HB**  
(Rear Mounting)



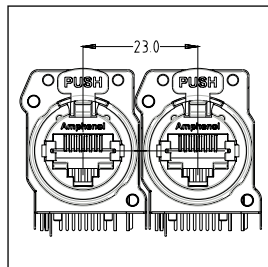
RJV8FD\*VB



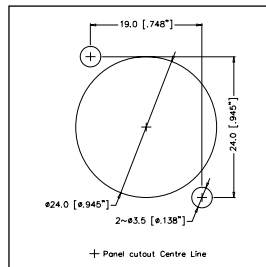
**LED  
Arrangement  
(Front view)**



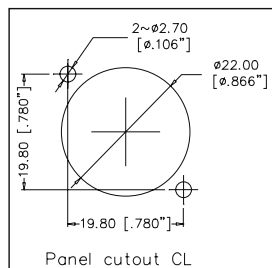
**PANEL CUTOUT**  
A and B type  
with LED's



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



### D Type



### A and B Type

## STANDARD DATA XLNet CHASSIS RECEPTACLES

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

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

Rev 3 - 05/2015



## 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

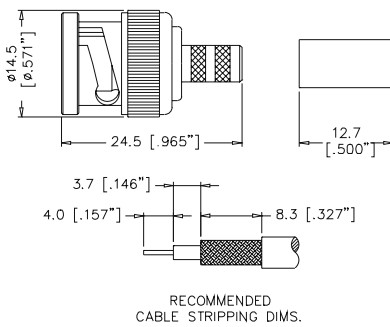
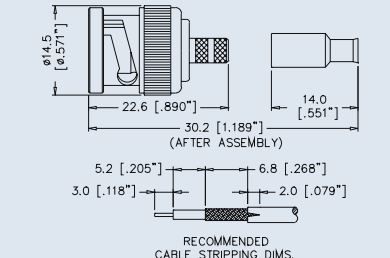
- 1) Identify the product group listed in Contents on page 1 and go directly to that page number.
- 2) Each product group cover page then details information and options available.
- 3) Refer to the product detail pages and identify the product you require pictorially.
- 4) Read the product description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



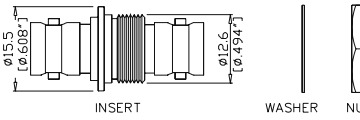
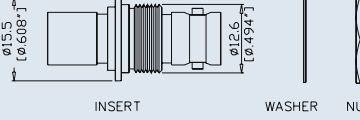
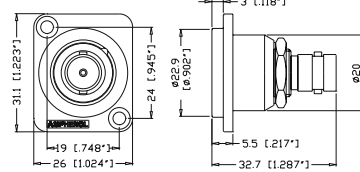
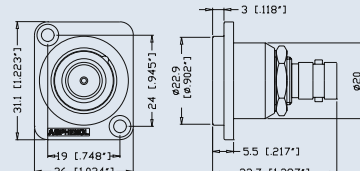
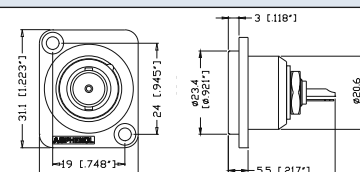
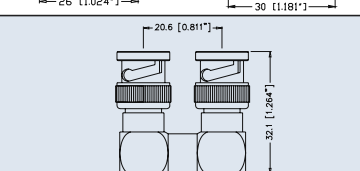
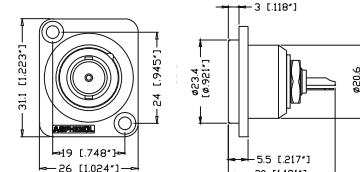
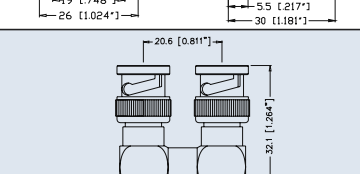
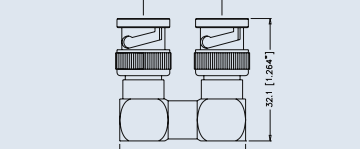


Amphenol manufactures a large range of connectors to suit cables other than those listed below, for example Belden YR23769 and 46899, please contact us to discuss your specific requirements.

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<br>Dimensions in mm (inches)                                                                                                                                                                                                                                                    | CABLE TYPE RG-/U                         | INSULATION | CRIMP TOOL | PART NUMBER |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------|------------|-------------|
|    | <p>Straight Crimp Plug - Captive Contact- Standard Cable</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      |
|                                                                                     |                                                                                                                                                                                                                                                                                         | B8281/ B9231/ B9141                      | Delrin     | E          | 112509      |
|  | <p>Straight Crimp Plug-Captive Contact-Miniature Cable<br/>(Remark: With Teflon sleeve / Hex crimp size .178")</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><br><br>Jack to Jack - Straight Bayonet Lock to Bayonet Lock                     | Teflon     | N/A        | AC-BNC-JJA-75T* |
|    |                                                                                                                                              |                           | <b>Bulkhead Adapter -Isolated</b><br><br>Jack to Jack - Straight Push on to Bayonet Lock                          | Teflon     | N/A        | AC-BNC-PJA-75T* |
|    |                          |                           | <b>Bulkhead Adapter -Isolated, 'D' Shell Housing</b><br>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><br>Jack to Jack, Bayonet Lock to Bayonet Lock, Black Finish  | Teflon     | N/A        | AC-BNC-JJ-75B*  |
|  |                        |                           | <b>Bulkhead Adapter -Isolated, 'D' Shell Housing</b><br>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><br>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><br>Jack to Solder Bucket with Ground Tag, Nickel Finish   | Nylon      | N/A        | AC-BNC-JS-75    |
|  |  |                           | <b>Bulkhead Receptacle -Isolated, 'D' Shell Housing</b><br>Jack to Solder Bucket with Ground Tag, Black Finish    | Nylon      | N/A        | AC-BNC-JS-75B   |
|  |                                                                                                                                           |                           | <b>U - Link</b><br>Centre to Centre - 20.6 mm<br><br><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:

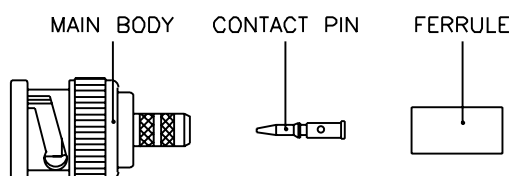
- 1RU, 20 BNC connectors or 2RU, 40 BNC connectors
- Aluminium in Clear or Black anodised
- Steel in Black powder coat
- Customised versions available on request

| PRODUCT - FIGURE                                   | DRAWING | Dimensions in mm (inches) | DESCRIPTION | MATERIAL / FINISH | LOADED WITH<br>(refer to page 84 for specifications) | PART NUMBER  |
|----------------------------------------------------|---------|---------------------------|-------------|-------------------|------------------------------------------------------|--------------|
| 1RU 1X20 Patch Panel,<br>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,<br>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

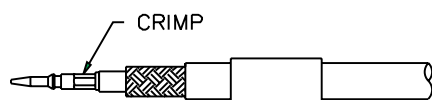
#### STEP 1



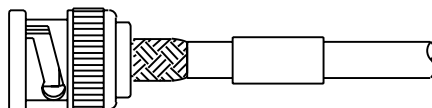
#### STEP 2



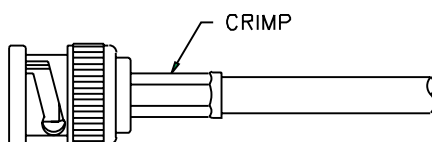
#### STEP 3



#### 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.

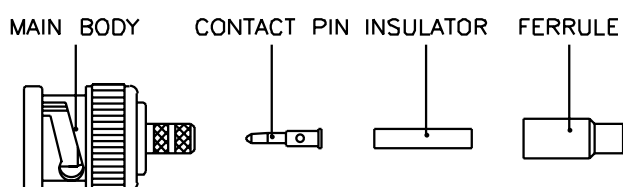
STEP 3. Insert inner conductor into the CONTACT PIN, crimp it with the crimp tool as shown. Then slide the FERRULE onto cable.

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

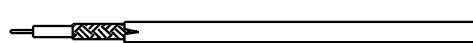
STEP 5. Slide the FERRULE over braid, crimp it with the crimp tool as shown.

### ASSEMBLY B

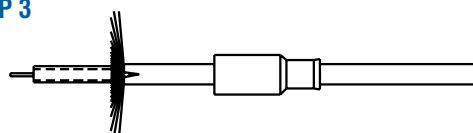
#### STEP 1



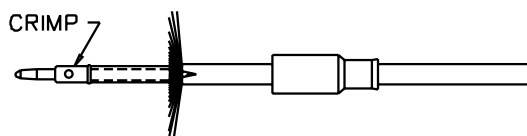
#### STEP 2



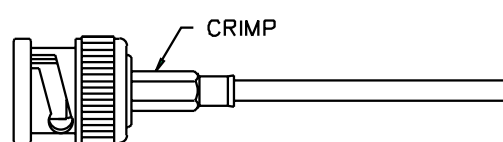
#### STEP 3



#### 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.

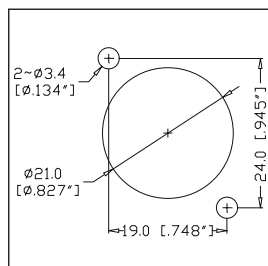
## STANDARD DATA BNC 75 RF CONNECTORS

|                            |                                 | VALUE                                        |                                 |
|----------------------------|---------------------------------|----------------------------------------------|---------------------------------|
| GENERAL CHARACTERISTICS    | Mating                          | Bayonet Lock                                 |                                 |
|                            | Cable Attachment                | Crimp - Crimp                                |                                 |
|                            | Environmental                   | Complies with EU RoHS 2 Directive 2011/65/EU |                                 |
| ELECTRICAL CHARACTERISTICS | 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              | 1.5 milliohm                                 |                                 |
|                            | Centre Contact                  | 1.0 milliohm                                 |                                 |
|                            | Outer Contact                   | 5000 MΩ (min.)                               |                                 |
|                            | Insulation Resistance           |                                              |                                 |
| MATERIALS                  | Part                            | Material                                     | Finish                          |
|                            | Body, Coupling sleeves          | Brass                                        | Nickel                          |
|                            | Crimp Ferrule                   | Annealed Copper                              | Nickel                          |
|                            | Male Contact                    | Brass                                        | Gold                            |
|                            | Female Contact                  | Beryllium Copper or Phosphor Bronze          | Gold                            |
|                            | XLR Housing                     | Diecast Zinc Alloy                           | Satin Nickel or Black Polyester |
|                            | Insulators                      | Teflon or Delrin                             | Natural                         |

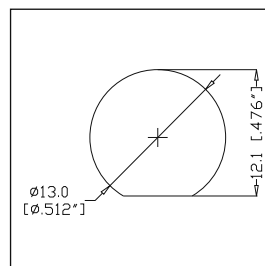
**NOTE:** These characteristics are typical and may not apply to all connectors.

## PANEL CUTOUTS - FRONT VIEW

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



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



Rev 4 - 03/2013



## 1/4" PHONE CONNECTORS

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

### Applications

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

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

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

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

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

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



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



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

\*Note: Applicable to T-Series straight cable connectors only. Refer to page 95 for right angle connector Jaws cable clamp specifications.

### Musician Range Cable Clamp Options



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



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

### Ordering Codes

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

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

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



## 1/4" PLUG FEATURE MATRIX

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

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

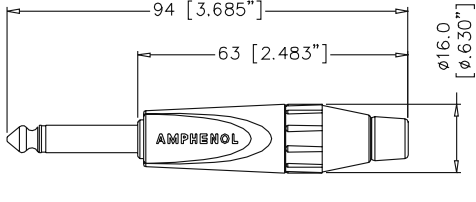
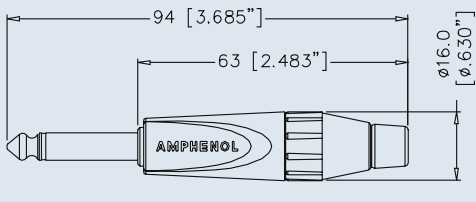
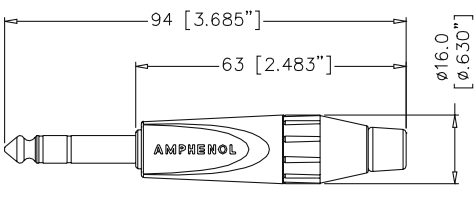
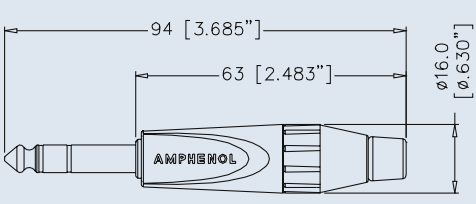


## Features:

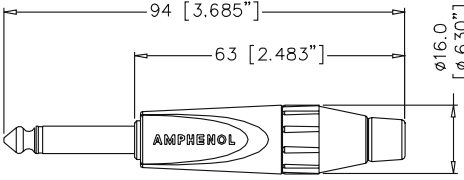
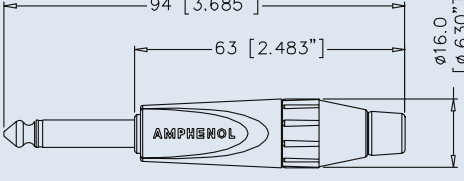
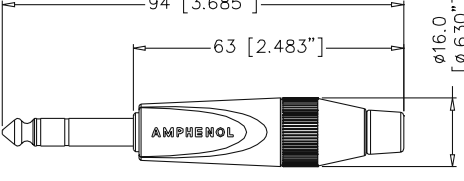
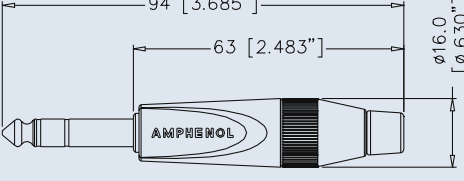
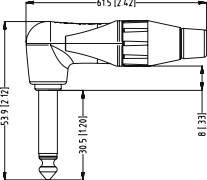
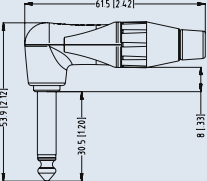
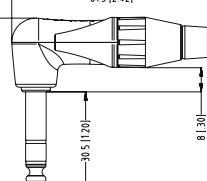
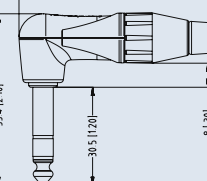
- Mono or Stereo (TRS).
- Stylised shell design with Ergonomic grip.
- Straight or Right Angle.
- Robust diecast shell in Satin nickel or Black finish.
- Nickel or Gold contact plating.
- Keyed shell.
- Optional heavy duty metal backshell / boot.
- Great solderability.
- Increased solder area on ground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

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

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

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



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

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

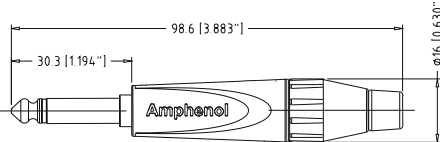
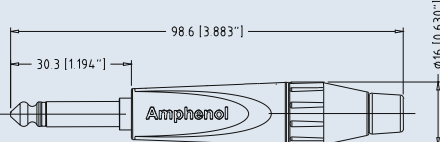
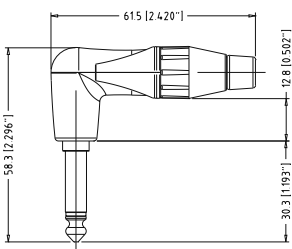
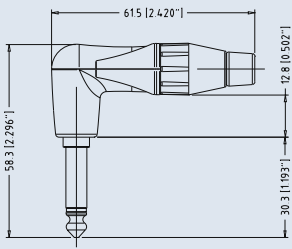


The Amphenol T series SwitchPlug uses a unique 360 degree precision sliding helical spring contact design to quietly and accurately switch the signal circuit safely to ground during instrument changes under load, thereby avoiding annoying thumps, pops and squeals. The sliding ring contact self-cleans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

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

**Part Number Breakdown: Page 94**  
**Specifications: Page 95**

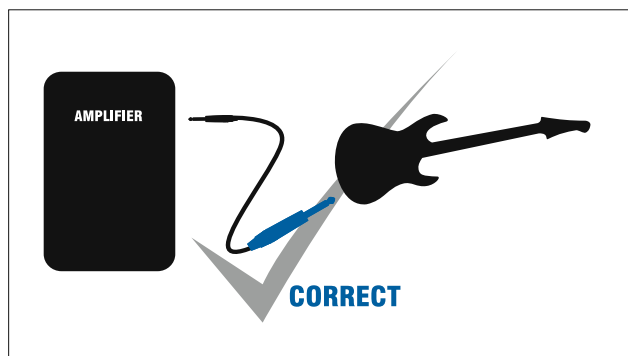
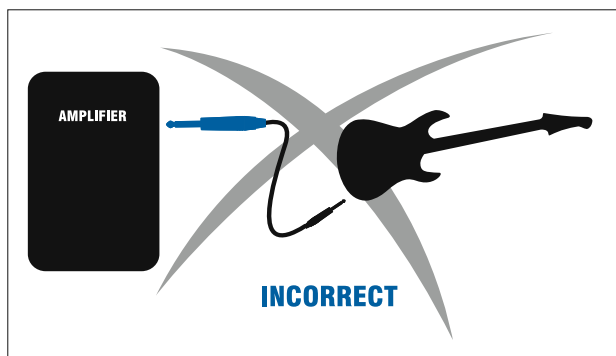
US Patent No.8,162,697

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

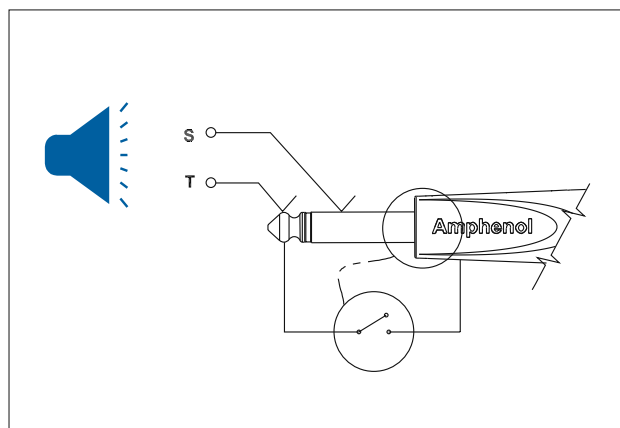
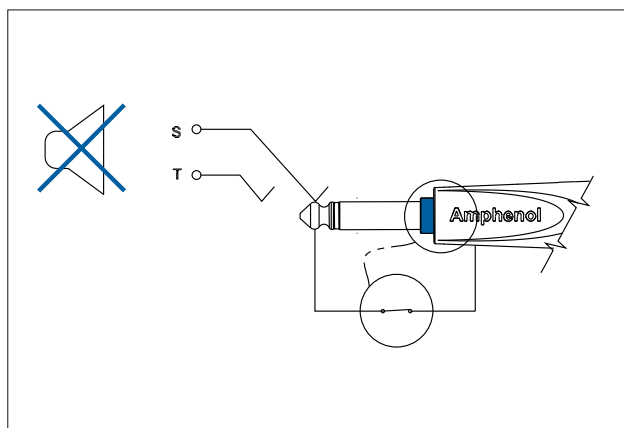
\*NOTE: Refer to page 98 for Jaws cable clamp specifications applicable to right angle connectors.

## 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\*



\*US Patent No. 8,162,697



**Features:**

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

**Options:** Gold Contacts, Bulk Pack.

**Specifications:** Page 95

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

NOTE: Contact factory for availability of metal backshells.

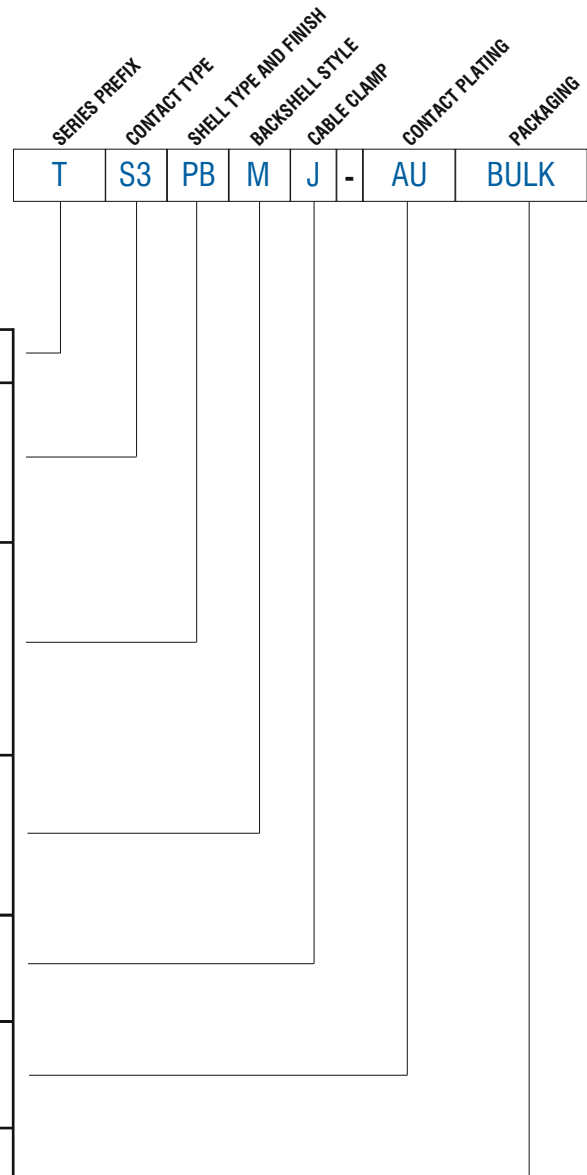
## PART NUMBER BREAKDOWN

### T-SERIES (PRO RANGE)

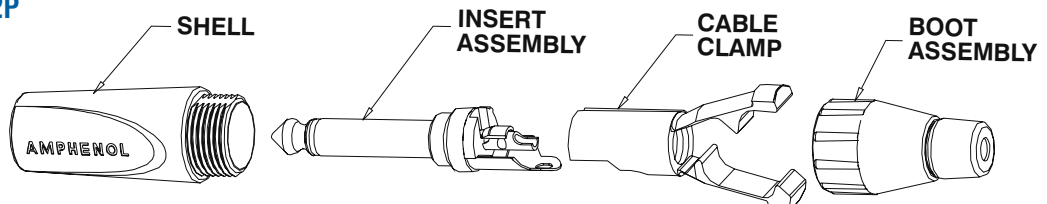
E. G. **TS3PBMJ-AU BULK**

**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><br>3 Pole (Stereo): AWG 18 - 1mm <sup>2</sup>     |                                      |                                       |
|                                   | Flammability rating of insulating plastics     | UL94V-0                                                                                      |                                      |                                       |
|                                   | Solderability, complies with                   | IEC 68-2-20                                                                                  |                                      |                                       |
|                                   | Environmental                                  | Complies with EU RoHS 2 Directive 2011/65/EU                                                 |                                      |                                       |
| <b>ELECTRICAL CHARACTERISTICS</b> | Current Carrying Capacity                      | 10A (Depends on Mating Connector and Cable)                                                  |                                      |                                       |
|                                   | Typical Contact Resistance                     | Depends on Mating Connector                                                                  |                                      |                                       |
|                                   | Insulation resistance (initial)                | >2GΩ                                                                                         |                                      |                                       |
|                                   | After Damp Heat Test                           | ≥1GΩ                                                                                         |                                      |                                       |
|                                   | Dielectric Withstand Voltage                   | 2 Pole : 1.5 kV dc<br>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<br>(0.118" to 0.236")                                                             | 3mm to 5.5mm<br>(0.118" to 0.216")   | NA                                    |
|                                   | Cable O.D. - Large Jaw                         | 6mm to 7mm<br>(0.236" to 0.275")                                                             | 5.5mm to 6.5mm<br>(0.216" to 0.255") | NA                                    |
|                                   | Cable O.D. - Jumbo                             | NA                                                                                           | NA                                   | 7.5mm to 10.5mm<br>(0.295" to 0.413") |
| <b>MATERIALS</b>                  | Mechanical Operations                          | 1000                                                                                         |                                      |                                       |
|                                   | 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.



## 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)

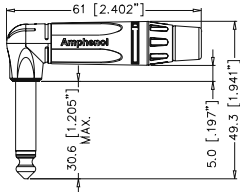
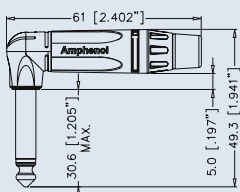
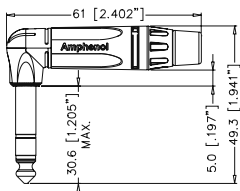
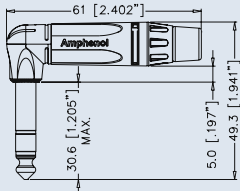
**Specifications:** Page 112

## Clamp Info:



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

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

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




**Features:**

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

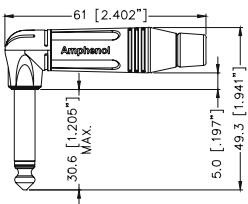
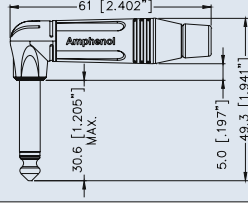
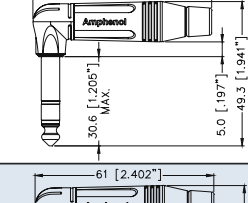
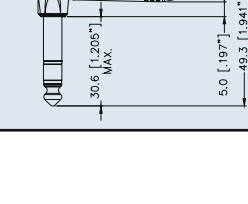
**Options:** Black Shell, Gold contacts.  
Coloured grommets (ordered separately)

**Specifications: Page 109**

**Clamp Info:**


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

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

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

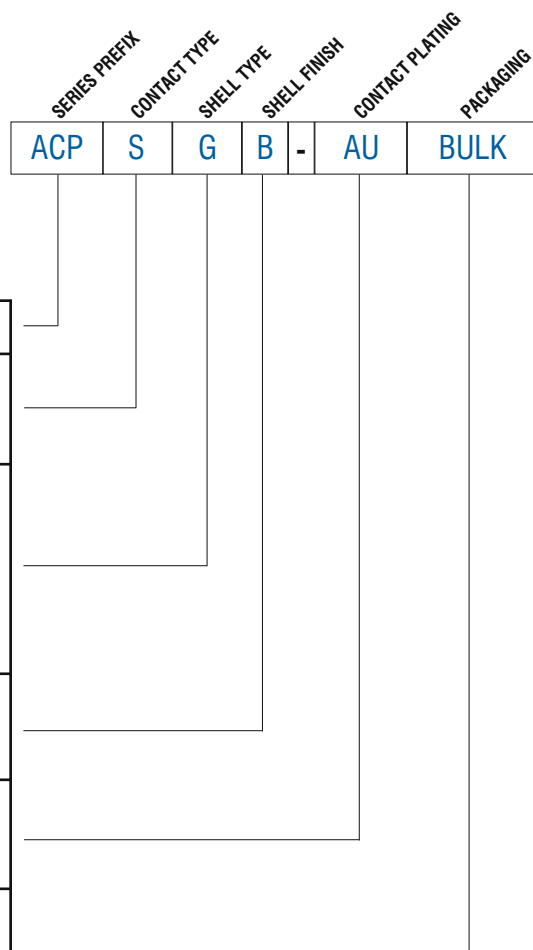


## PART NUMBER BREAKDOWN

M / M SERIES II (MUSICIAN RANGE)

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

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





## 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.

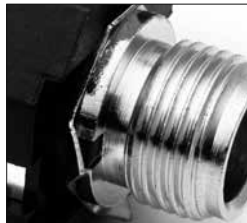
### Applications

- 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

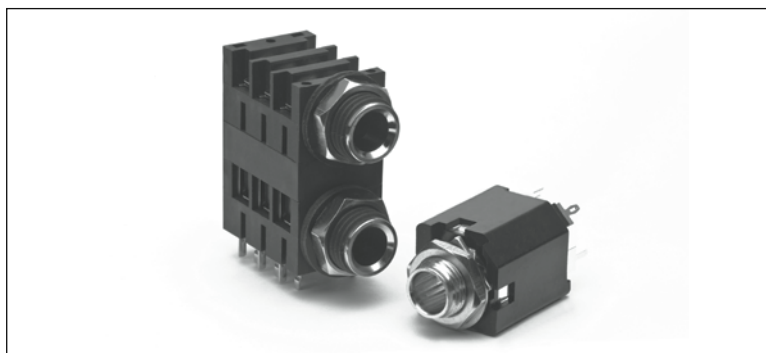
### Ordering Codes

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:

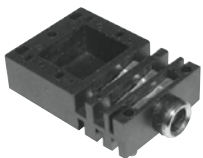
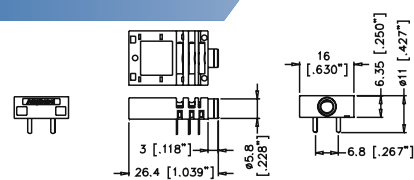
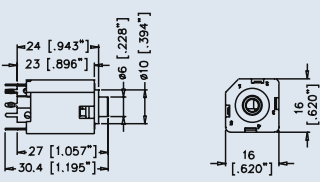
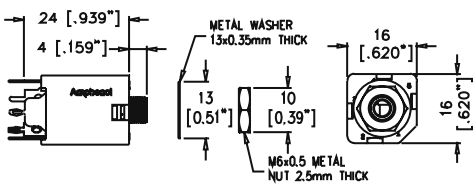
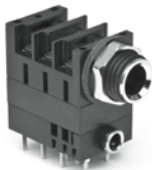
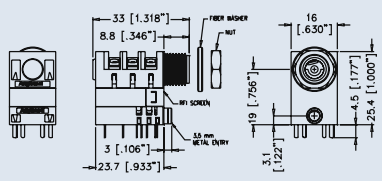
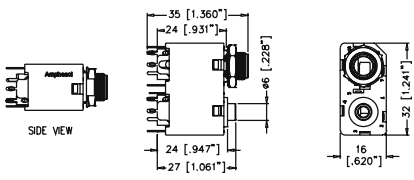
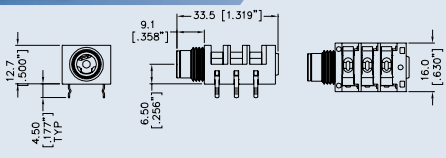
- 3.5mm and 6.35mm (1/4") options
- Mono or Stereo (TRS)
- Single or Dual mounting
- Vertical or Horizontal PCB mount
- Mono and Stereo with switching contacts
- Solder or Combo contacts
- Various mounting option

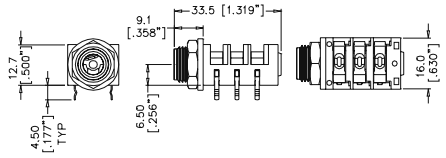
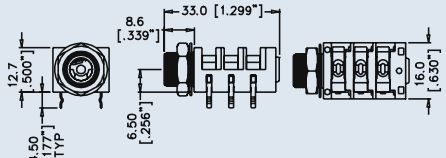
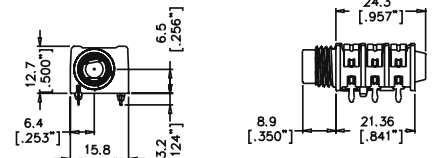
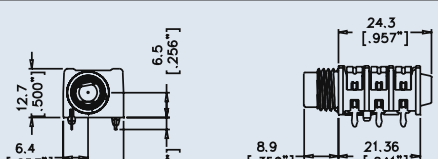
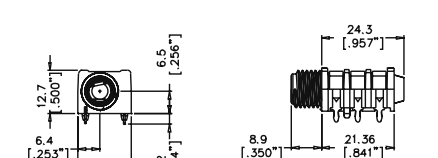
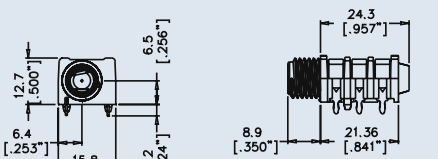
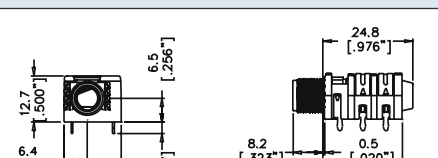
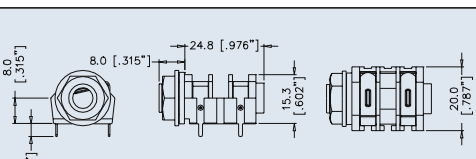
**Schematic Chart: Page 107**

**Panel Cutouts: Page 106**

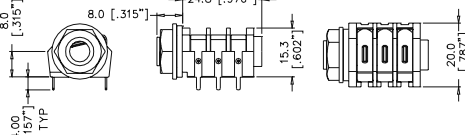
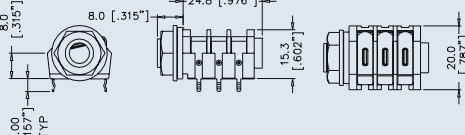
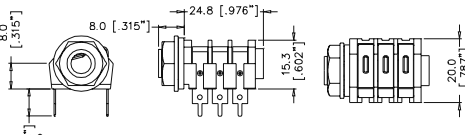
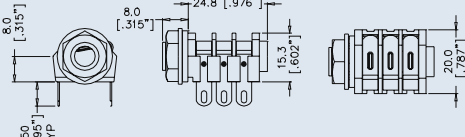
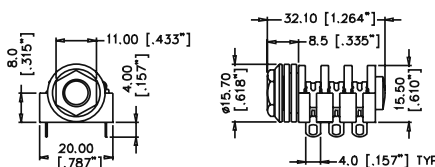
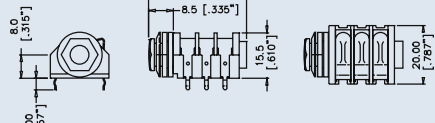
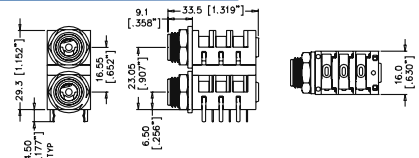
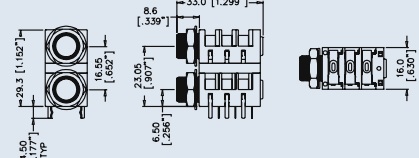
**PCB Footprints: Page 108**

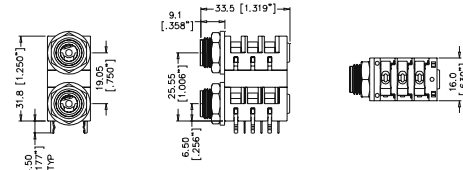
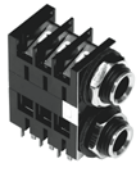
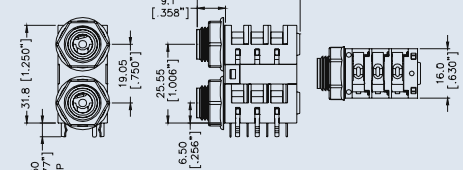
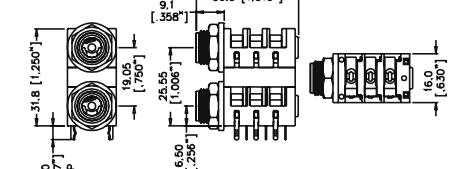
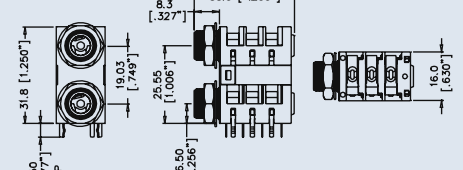
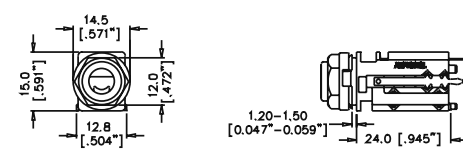
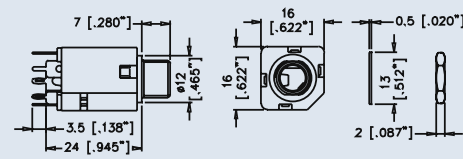
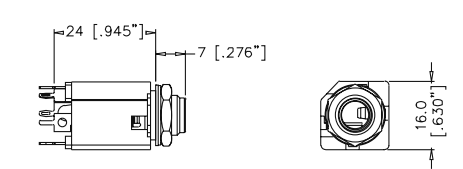
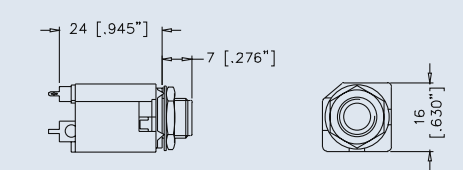
**Specifications: Page 109**

| PRODUCT - FIGURE                                                                    | DRAWING                                                                             | Dimensions in mm (inches) | DESCRIPTION                                                                                                                            | VARIATIONS                           | PART NUMBER                                                                         |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------|
| <b>3.5MM PHONE JACKS</b>                                                            |                                                                                     |                           |                                                                                                                                        |                                      |                                                                                     |
|    |    |                           | 3.5mm Jack, Horizontal PCB, Plastic housing, Metal entry bore                                                                          | Mono                                 | ACJM-NH35                                                                           |
|                                                                                     |                                                                                     |                           |                                                                                                                                        | Stereo                               | ACJS-NH35                                                                           |
|   |   |                           | 3.5mm Jack, Vertical PCB mount, Needle eye contacts, Plastic housing, Metal entry bore                                                 | Refer to Schematic Chart on page 107 | ACJM-NV35-2<br>ACJM-NV35-2S<br>ACJS-NV35-3<br>ACJS-NV35-3S<br>ACJS-NV35-5           |
|  |  |                           | 3.5mm Jack, Vertical PCB mount, Needle eye contacts, Plastic housing, Metal thread and entry bore                                      | Refer to Schematic Chart on page 107 | ACJM-MV35-2<br>ACJM-MV35-2S<br>ACJS-MV35-3<br>ACJS-MV35-3S<br>ACJS-MV35-5           |
|  |  |                           | 3.5mm / 1/4" (6.35mm) Dual Phone Jack, (Piggy-back), Horizontal PCB, Plastic housing, Metal nut and entry bore                         | Mono                                 | ACJM-MHD985                                                                         |
|                                                                                     |                                                                                     |                           |                                                                                                                                        | Stereo                               | ACJS-MHD985                                                                         |
|  |  |                           | 3.5mm / 1/4" (6.35mm) Dual Phone Jack, Vertical PCB mount, Needle eye contacts, Plastic housing, Metal nut and entry bore              | Refer to Schematic Chart on page 107 | ACJM-MVD985-2<br>ACJM-MVD985-2S<br>ACJS-MVD985-3<br>ACJS-MVD985-3S<br>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                                                                           |

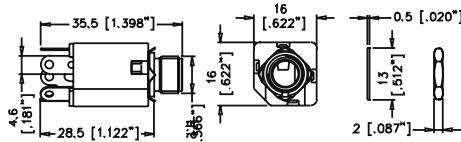
| PRODUCT - FIGURE                                                                    | DRAWING<br>Dimensions in mm (inches)                                                | DESCRIPTION                                                                                                                                             | VARIATIONS                           | PART NUMBER |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------|
|    |    | 1/4" (6.35mm) Phone Jack, Horizontal Snap-fit PCB, Plastic housing, Metal nut and entry bore                                                            | Mono                                 | ACJM-MHDR   |
|                                                                                     |                                                                                     |                                                                                                                                                         | Stereo                               | ACJS-MHDR   |
|    |    | 1/4" (6.35mm) Phone Jack, Horizontal Snap-fit PCB, Plastic housing, Metal thread, nut, washer and entry bore                                            | Mono                                 | ACJM-MHDM   |
|                                                                                     |                                                                                     |                                                                                                                                                         | Stereo                               | ACJS-MHDM   |
|    |    | 1/4" (6.35mm) Offset Jack, Horizontal PCB mount, Plastic housing and entry bore with Half thread. Supplied without mounting hardware.                   | Refer to Schematic Chart on page 107 | ACJM-HHOP   |
|                                                                                     |                                                                                     |                                                                                                                                                         |                                      | ACJS-HHOP   |
|  |   | 1/4" (6.35mm) Offset Jack, Horizontal PCB mount, Plastic housing and entry bore with Half thread. Supplied without mounting hardware.                   | Refer to Schematic Chart on page 107 | ACJM-HHOP-1 |
|                                                                                     |                                                                                     |                                                                                                                                                         |                                      | ACJS-HHOP-1 |
|  |  | 1/4" (6.35mm) Offset Jack, Horizontal PCB mount, Plastic housing, thread and entry bore                                                                 | Mono - Plastic Nut                   | ACJM-PHOP   |
|                                                                                     |                                                                                     |                                                                                                                                                         | Mono - Metal Nut                     | ACJM-MHOP   |
|                                                                                     |                                                                                     |                                                                                                                                                         | Stereo - Plastic Nut                 | ACJS-PHOP   |
|                                                                                     |                                                                                     |                                                                                                                                                         | Stereo - Metal Nut                   | ACJS-MHOP   |
|  |  | 1/4" (6.35mm) Offset Jack, Horizontal PCB mount, Plastic housing, thread and entry bore. Non-switching sleeve contact with separate grounding to panel. | Refer to Schematic Chart on Page 110 | ACJM-PHOP-1 |
|                                                                                     |                                                                                     |                                                                                                                                                         | PHOP - Denotes Plastic Nut           | ACJM-MHOP-1 |
|                                                                                     |                                                                                     |                                                                                                                                                         | MHOP - Denotes Metal Nut             | ACJS-PHOP-1 |
|                                                                                     |                                                                                     |                                                                                                                                                         |                                      | ACJS-MHOP-1 |
|  |  | 1/4" (6.35mm) Offset Jack, Horizontal PCB mount, Plastic housing, Metal thread and entry bore with Chassis ground connection                            | Mono - Metal Nut                     | ACJM-MHOM   |
|                                                                                     |                                                                                     |                                                                                                                                                         | Stereo - Metal Nut                   | ACJS-MHOM   |
|  |  | 1/4" (6.35mm) Jack, Horizontal PCB mount, Plastic housing with metal insert                                                                             | Mono - Plastic Nut                   | ACJM - PH   |
|                                                                                     |                                                                                     |                                                                                                                                                         | Mono - Metal Nut                     | ACJM - MH   |



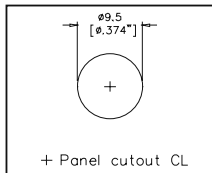
| PRODUCT - FIGURE                                                                    | DRAWING                                                                             | Dimensions in mm (inches) | DESCRIPTION                                                                                       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

| PRODUCT - FIGURE                                                                    | DRAWING                                                                             | Dimensions in mm (inches) | DESCRIPTION                                                                                                                           | VARIATIONS                           | PART NUMBER |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------|
|    |    |                           | 1/4" (6.35mmø) Dual Phone Jack (Piggyback) Horizontal Snap-fit PCB, Plastic housing, Metal nut and entry bore                         | Mono                                 | ACJM-MHD*   |
|                                                                                     |                                                                                     |                           |                                                                                                                                       | Stereo                               | ACJS-MHD*   |
|    |    |                           | 1/4"(6.35mmø) Dual Phone Jack (Piggyback) Shielding plate, Horizontal Snap-fit PCB, Plastic housing, Metal nut and entry bore         | Mono                                 | ACJM-MHDE*  |
|                                                                                     |                                                                                     |                           |                                                                                                                                       | Stereo                               | ACJS-MHDE*  |
|    |    |                           | 1/4"(6.35mmø) Dual Phone Jack (Piggyback), Horizontal Snap-fit PCB, Plastic housing, Metal thread, nut, washer and entry bore         | Mono                                 | ACJM-MHDM*  |
|                                                                                     |                                                                                     |                           |                                                                                                                                       | Stereo                               | ACJS-MHDM*  |
|  |  |                           | 1/4"(6.35mmø) Dual Phone Jack (Piggyback), Shielding plate Horizontal Snap-fit PCB, Plastic housing, Metal thread, nut and entry bore | Mono                                 | ACJM-MHDEM* |
|                                                                                     |                                                                                     |                           |                                                                                                                                       | Stereo                               | ACJS-MHDEM* |
| " PHONE JACKS VERTICAL                                                              |                                                                                     |                           | 1/4" (6.35mmØ) Jack, Vertical PCB mount, Plastic housing, nut and entry bore                                                          | Refer to Schematic Chart on page 107 | ACJM-PVB-2  |
|  |  | ACJM-PVB-2S               |                                                                                                                                       |                                      |             |
|                                                                                     |                                                                                     | ACJS-PVB-3                |                                                                                                                                       |                                      |             |
|                                                                                     |                                                                                     | ACJS-PVB-3S               |                                                                                                                                       |                                      |             |
|                                                                                     |                                                                                     | ACJS-PVB-5                |                                                                                                                                       |                                      |             |
|  |  | ACJM-MIV-2                |                                                                                                                                       |                                      |             |
|                                                                                     |                                                                                     | ACJM-MIV-2S               |                                                                                                                                       |                                      |             |
|                                                                                     |                                                                                     | ACJS-MIV-3                |                                                                                                                                       |                                      |             |
|                                                                                     |                                                                                     | ACJS-MIV-3S               |                                                                                                                                       |                                      |             |
|                                                                                     |                                                                                     | ACJS-MIV-5                |                                                                                                                                       |                                      |             |
|  |  | ACJM-MN-2                 |                                                                                                                                       |                                      |             |
|                                                                                     |                                                                                     | ACJS-MN-3                 |                                                                                                                                       |                                      |             |
|                                                                                     |                                                                                     | ACJM-MN-2S                |                                                                                                                                       |                                      |             |
|                                                                                     |                                                                                     | ACJS-MN-3S                |                                                                                                                                       |                                      |             |
|                                                                                     |                                                                                     | ACJS-MN-5                 |                                                                                                                                       |                                      |             |
|  |  | ACJM-MV-2                 |                                                                                                                                       |                                      |             |
|                                                                                     |                                                                                     | ACJM-MV-2S                |                                                                                                                                       |                                      |             |
|                                                                                     |                                                                                     | ACJS-MV-3                 |                                                                                                                                       |                                      |             |
|                                                                                     |                                                                                     | ACJS-MV-3S                |                                                                                                                                       |                                      |             |
|                                                                                     |                                                                                     | ACJS-MV-5                 |                                                                                                                                       |                                      |             |

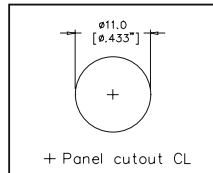


| PRODUCT - FIGURE                                                                  | DRAWING                                                                           | DESCRIPTION                                          | VARIATIONS                           | PART NUMBER                         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

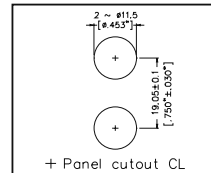
## PANEL CUTOUTS -FRONT VIEW



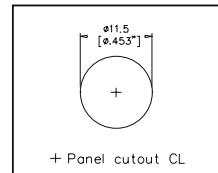
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ACJS-MV  
ACJM-MN-2  
ACJS-MN-3  
ACJM-MN-2S  
ACJS-MN-3S  
ACJS-MN-5  
ACJM-MIV  
ACJS-MIV  
ACJM-MVS  
ACJS-MVS



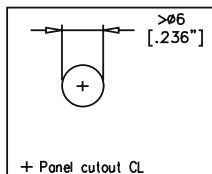
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ACJM/S-MH  
ACJM/S-PC  
ACJM/S-MC  
ACJM/S-PHR  
ACJM/S-MHR  
ACJM/S-PHS  
ACJM/S-MHS



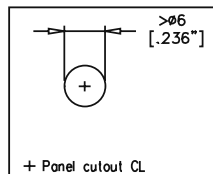
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ACJS-MHD  
ACJM-MHDE  
ACJS-MHDE



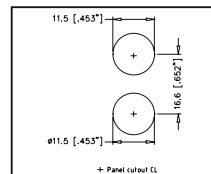
ACJM-MHDR  
ACJS-MHDR  
ACJS-HHDR



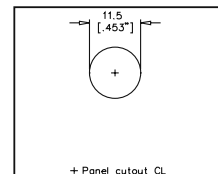
ACJM-NH35  
ACJS-NH35



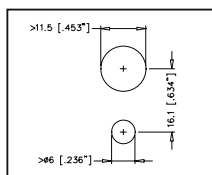
ACJM-NV35-2  
ACJS-NV35-2S  
ACJS-NV-35-3  
ACJS-NV-35-3S  
ACJS-NV-35-5  
ACJM-MV35-2  
ACJM-MV35-2S  
ACJS-MV-35-3  
ACJS-MV-35-3S  
ACJS-MV-35-5



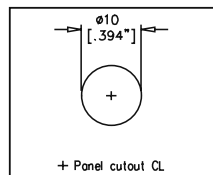
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ACJM-MHDC



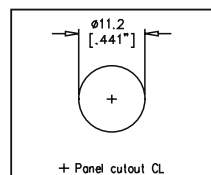
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ACJM-IH  
ACJS-IHS  
ACJM-IHS



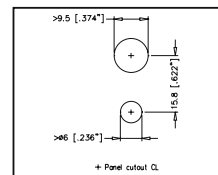
ACJM-MHD985  
ACJM-MHD985



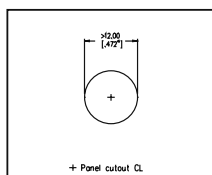
ACJS-MHOM  
ACJM-MHOM



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

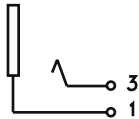
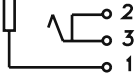
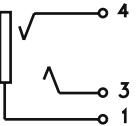
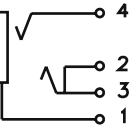
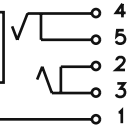


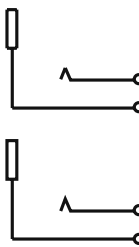
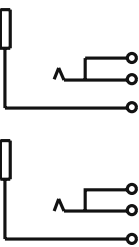
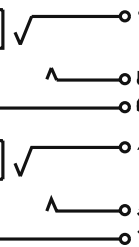
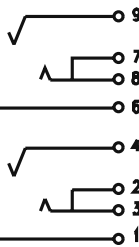
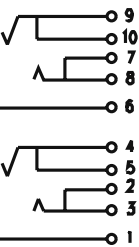
ACJS-MVD985  
ACJM-MVD985

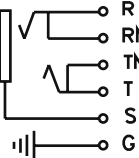
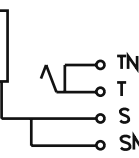
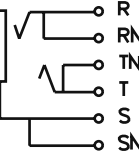


ACJM-PVB-2  
ACJM-PVB-2S  
ACJS-PVB-3  
ACJS-PVB-3S  
ACJS-PVB-5

## SCHEMATIC CHART

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

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

| PART NO.          | ACJM-HHOP-1<br>ACJM-PHOP-1<br>ACJM-MHOP-1                                           | ACJS-HHOP-1<br>ACJS-PHOP-1<br>ACJS-MHOP-1                                           | ACJM-HHOP<br>ACJM-PHOP<br>ACJM-MHOP                                                 | ACJS-HHOP<br>ACJS-PHOP<br>ACJS-MHOP                                                  |
|-------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| GENERAL SCHEMATIC |  |  |  |  |





## 1/4" PLUGS TECHNICAL DATA

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

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


## 1/4" JACKS TECHNICAL DATA

|                                   |                                                           | VALUE                                                                                                                                                                                      |
|-----------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>GENERAL CHARACTERISTICS</b>    | Number of Contacts                                        | 2 Pole (Mono)<br>3 Pole Tip Ring Sleeve (Stereo)                                                                                                                                           |
|                                   | Termination                                               | Solder, PCB or Combo                                                                                                                                                                       |
|                                   | Flammability rating of insulating plastics                | UL94V-0                                                                                                                                                                                    |
|                                   | Solderability, complies with                              | IEC 68-2-20                                                                                                                                                                                |
|                                   | Environmental                                             | Complies with EU RoHS 2 Directive 2011/65/EU                                                                                                                                               |
| <b>ELECTRICAL CHARACTERISTICS</b> | Current Carrying Capacity                                 | 10A (Depends on Mating Connector and Cable)                                                                                                                                                |
|                                   | Typical Contact Resistance                                | ≤10mΩ                                                                                                                                                                                      |
|                                   | Insulation resistance (initial)<br>After Damp Heat Test   | >2GΩ<br>≥10 <sup>3</sup> Meg Ω                                                                                                                                                             |
|                                   | Rated Voltage<br>Test Voltage AC RMS: Dielectric Strength | 34V<br>500V                                                                                                                                                                                |
| <b>CLIMATIC CHARACTERISTICS</b>   | Protection Class                                          | IP40                                                                                                                                                                                       |
|                                   | Operating Temperature                                     | -25°C to +70°C (-13°F to 158°F)                                                                                                                                                            |
| <b>MECHANICAL CHARACTERISTICS</b> | Insertion and Withdrawal Force                            | ≥10N - ≤30N                                                                                                                                                                                |
|                                   | Mating Cycles                                             | Min. of 1000 cycles without any physical damage                                                                                                                                            |
|                                   | Weight<br>- Straight<br>- Right Angle                     | 18g (0.039lb)<br>25g (0.055lb)                                                                                                                                                             |
|                                   |                                                           |                                                                                                                                                                                            |
| <b>MATERIALS</b>                  | Connector Shell Material                                  | Nylon PA66 30% Glass Filled                                                                                                                                                                |
|                                   | Insulators                                                | UL94 V-0 PBT Resin or Modified PPE Resin and fibreglass laminate                                                                                                                           |
|                                   | Metal Nut                                                 | Brass                                                                                                                                                                                      |
|                                   | Plastic Nut                                               | Nylon PA66 30% Glass Filled                                                                                                                                                                |
|                                   | Washer                                                    | Fiber / Brass / Nylon PA66 30% Glass Filled                                                                                                                                                |
|                                   | Contact Plating                                           | Tin - 4μm Min. over 2μm Min.Cu (Copper)<br>Silver - 0.3μm Min. over 2μm Min.Cu (Copper)<br>Nickel - 2μm Min. over 2μm Min.Cu (Copper)<br>Gold Flash - 0.05μm Min. over 2μm Min.Cu (Copper) |
|                                   | Contacts                                                  | Brass / Sn (Tin) over Cu (Copper)                                                                                                                                                          |

Rev 4 - 05/2014

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





## PLUGS AND SOCKETS

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

### Applications

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

### Features / Options – RCA Plugs and Jacks

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

### Features / Options – Miniature XLR

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

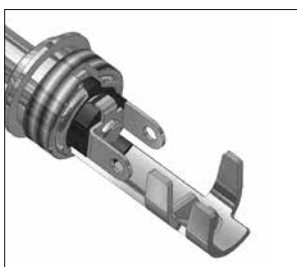
### Features / Options – 3.5mm Plugs Phone Jack

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

### Cable Clamp Options



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



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

### Ordering Codes

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

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

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



## 3.5mm K-SERIES



### Features:

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

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

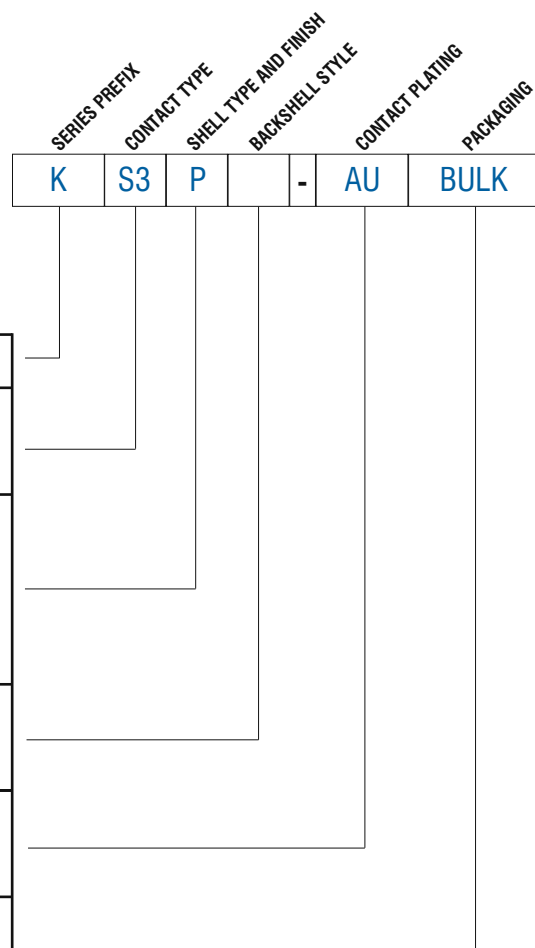
| PRODUCT - FIGURE                                                                    | DRAWING | Dimensions in mm (inches) | DESCRIPTION                                                                                                                                                  | VARIATIONS     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

## PART NUMBER BREAKDOWN

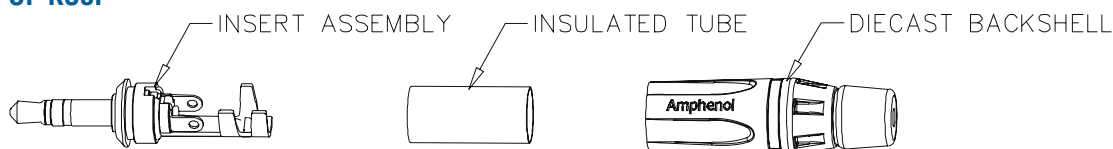
### K-SERIES

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

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



### ISO VIEW OF KS3P



## 3.5mm PLUG TECHNICAL DATA

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

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



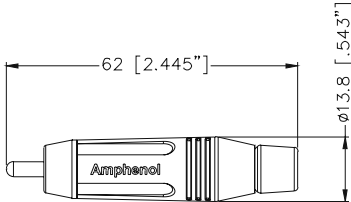
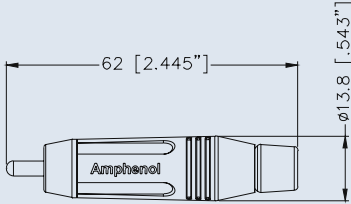
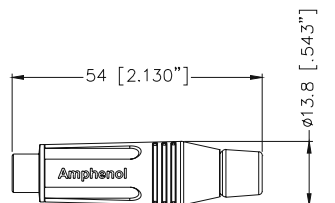
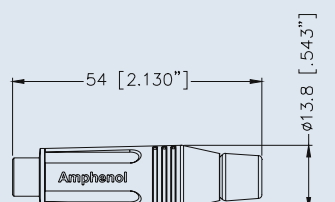
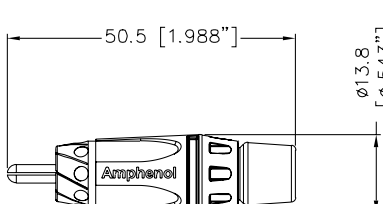
## RCA SERIES



### Features:

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

**Part Number Breakdown: Page 116**

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

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

| PRODUCT - FIGURE                                                                  | DRAWING                                                                           | DESCRIPTION                                                                             | VARIATIONS                                                                                          | PART NUMBER                                                                                                             |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|  |  | RCA Jack, Diecast Shell, Gold plated contacts, Nickel finish shell, coloured insulator. | <div>Red</div> <div>Black</div> <div>Yellow</div> <div>White</div> <div>Blue</div> <div>Green</div> | <div>ACJD-RED</div> <div>ACJD-BLK</div> <div>ACJD-YEL</div> <div>ACJD-WHT</div> <div>ACJD-BLU</div> <div>ACJD-GRN</div> |

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

## PART NUMBER BREAKDOWN

## M SERIES RCA

E. G. **ACPR-RED BULK**  
**AC** (Series Prefix), **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                                                                                                       | = | Regular Shell Length         |
|                                 | L                                                                                                       | = | Short Shell Length           |
|                                 | D                                                                                                       | = | Chassis Jack 'D' Shell       |
| <b>SHELL AND GROMMET COLOUR</b> | RED                                                                                                     | = | Red, Red Grommet             |
|                                 | BLK                                                                                                     | = | Black, Black Grommet         |
|                                 | YEL                                                                                                     | = | Yellow, Yellow Grommet       |
|                                 | WHT                                                                                                     | = | White, White Grommet         |
|                                 | BLU                                                                                                     | = | Blue, Blue Grommet           |
|                                 | GRN                                                                                                     | = | Green, Green Grommet         |
|                                 | SRD                                                                                                     | = | Satin Nickel, Red Grommet    |
|                                 | CRD                                                                                                     | = | Black Chrome, Red Grommet    |
|                                 | SBK                                                                                                     | = | Satin Nickel, Black Grommet  |
|                                 | CBK                                                                                                     | = | Black Chrome, Black Grommet  |
|                                 | SYL                                                                                                     | = | Satin Nickel, Yellow Grommet |
|                                 | CYL                                                                                                     | = | Black Chrome, Yellow Grommet |
|                                 | SWH                                                                                                     | = | Satin Nickel, White Grommet  |
|                                 | CWH                                                                                                     | = | Black Chrome, White Grommet  |
|                                 | SBL                                                                                                     | = | Satin Nickel, Blue Grommet   |
|                                 | CBL                                                                                                     | = | Black Chrome, Blue Grommet   |
|                                 | SGR                                                                                                     | = | Satin Nickel, Green Grommet  |
|                                 | CGR                                                                                                     | = | Black Chrome, Green Grommet  |
|                                 | NOTE: Denotes colour of insulator only on shell type D, Chassis Jack 'D' Shell. Shell finish is Nickel. |   |                              |
| <b>PACKAGING</b>                | Blank                                                                                                   | = | Individual Bags              |
|                                 | BULK                                                                                                    | = | Bulk Packed                  |

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

## RCA TECHNICAL DATA

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

Rev 4 - 05/2014

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

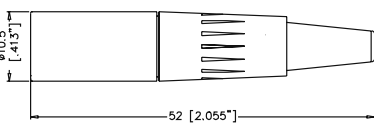
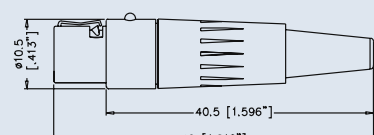
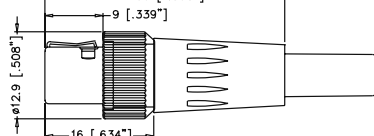
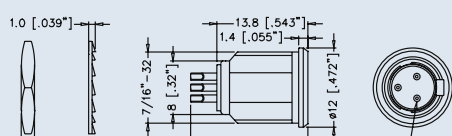
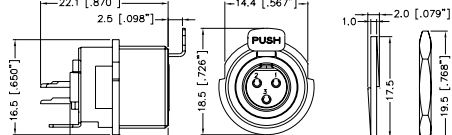
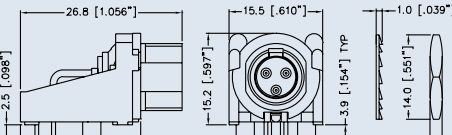
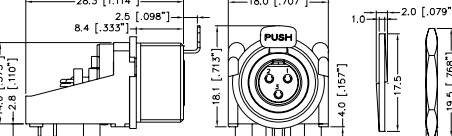


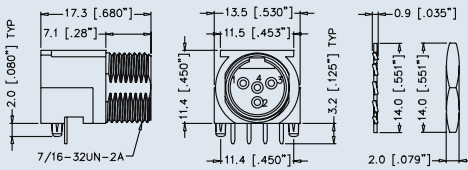
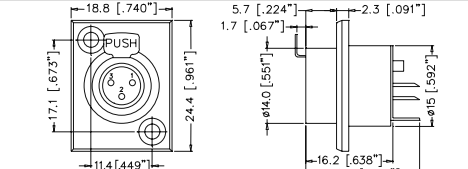


## Features:

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

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

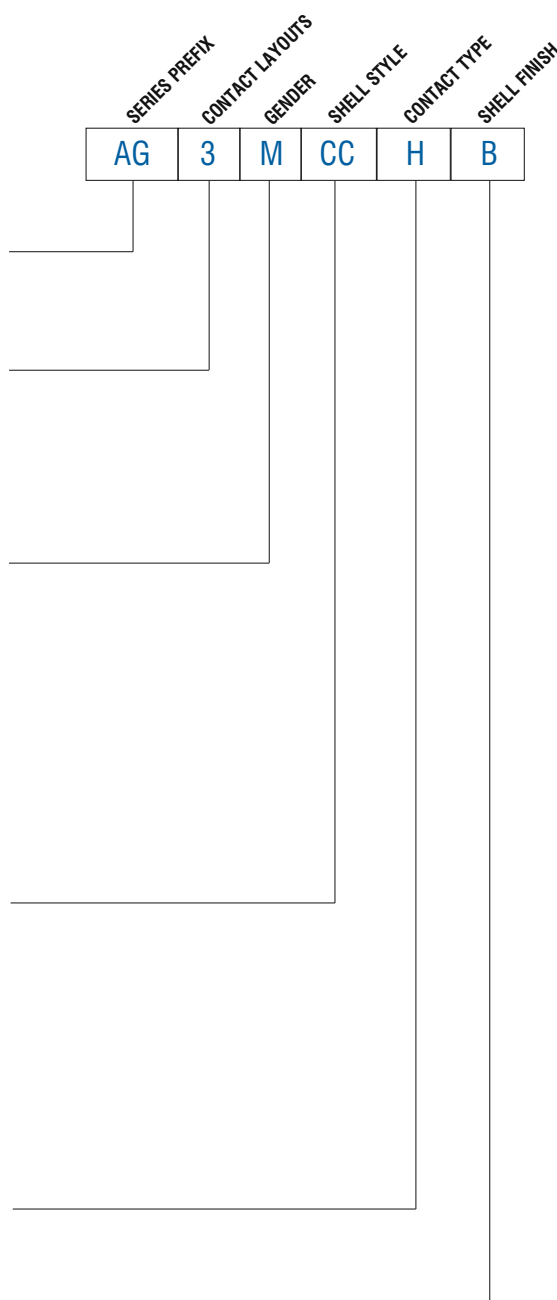
|                                                                                   |                                                                                                                                                                                                                                                                                                    |                                                                                |                                      |                                          |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------|------------------------------------------|
|  |  <p>17.3 [.680"]<br/>7.1 [.28"]<br/>2.0 [.080"] TYP<br/>7/16-32UN-2A<br/>13.5 [.530"]<br/>11.5 [.453"]<br/>11.4 [.450"]<br/>0.9 [.035"]<br/>3.2 [.125"] TYP<br/>14.0 [.551"]<br/>14.0 [.551"]<br/>2.0 [.079"]</p> | Male chassis connector, Horizontal PCB, Machined contacts, Thermoplastic shell | 4 pole                               | AG4MPCH                                  |
|  |  <p>18.8 [.740"]<br/>17.1 [.673"]<br/>24.4 [.961"]<br/>11.4 [.449"]<br/>5.7 [.224"]<br/>1.7 [.067"]<br/>2.3 [.091"]<br/>16.2 [.638"]<br/>21.2 [.835"]<br/>1.7 [.067"]<br/>16.2 [.638"]<br/>21.2 [.835"]</p>       | Female chassis connector, Stamped contacts, Nickel Finish                      | 3 pole<br>4 pole<br>5 pole<br>6 pole | AG3FCRV<br>AG4FCRV<br>AG5FCRV<br>AG6FCRV |

## PART NUMBER BREAKDOWN

### G TYPE CONNECTORS

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



## STANDARD DATA G TYPE

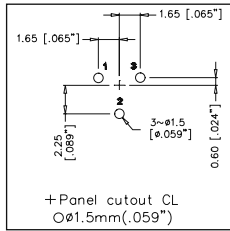
|                                   |                                                         | VALUE                                                        |    |                               |                              |
|-----------------------------------|---------------------------------------------------------|--------------------------------------------------------------|----|-------------------------------|------------------------------|
| <b>GENERAL CHARACTERISTICS</b>    | Number of Contacts                                      | 3                                                            | 4  | 5                             | 6                            |
|                                   | Termination                                             | Printed Circuit Board (PCB) or Solder Bucket                 |    |                               |                              |
|                                   | Max. Wire Gauge - Stranded Wire                         | AWG 24 - 0.5mm <sup>2</sup>                                  |    |                               | AWG 28 - 0.38mm <sup>2</sup> |
|                                   | Flammability                                            | UL94V-0                                                      |    |                               |                              |
|                                   | Environmental                                           | Complies with EU RoHS 2 Directive 2011/65/EU                 |    |                               |                              |
| <b>ELECTRICAL CHARACTERISTICS</b> | Service Voltage RMS                                     | 1000V                                                        |    |                               | 250V                         |
|                                   | Test Voltage AC RMS                                     | 125V AC                                                      |    |                               |                              |
|                                   | Current Carrying Capacity                               | 5A                                                           | 5A | 4A                            | 1.2A                         |
|                                   | Typical Contact Resistance                              | ≤10mΩ                                                        |    |                               |                              |
|                                   | Insulation resistance (initial)<br>After Damp Heat Test | ≥510MΩ<br>≥10MΩ                                              |    |                               |                              |
|                                   | Dielectric Strength                                     | 1500 V dc                                                    |    |                               |                              |
| <b>CLIMATIC CHARACTERISTICS</b>   | Protection Class                                        | IP00                                                         |    |                               |                              |
|                                   | Operating Temperature                                   | -30°C to +80°C (-20F - +176F)                                |    |                               |                              |
| <b>MECHANICAL CHARACTERISTICS</b> | Insertion Spring Separating Force                       | ≥20N                                                         |    |                               |                              |
|                                   | Cable O.D.                                              | 2mm to 3.5mm (0.078" to 0.137")                              |    | 3mm to 5mm (0.118" to 0.196") |                              |
|                                   | Mechanical Operations                                   | 5000 mating cycles                                           |    |                               | 2000 mating cycles           |
|                                   | Weight                                                  | 13.5g (0.029lb)                                              |    |                               |                              |
| <b>MATERIALS</b>                  | Connector Shell                                         | Bronze & Zinc                                                |    |                               |                              |
|                                   | Connector Shell Finish                                  | Nickel Plated                                                |    |                               |                              |
|                                   | Insulators                                              | PPS - Black                                                  |    |                               |                              |
|                                   | Male Contact                                            | Material - Brass C3604<br>Plating - Gold over Silver Plated  |    |                               |                              |
|                                   | Female Contact                                          | Material - Brass C5210P<br>Plating - Gold over Silver Plated |    |                               |                              |
|                                   | Latch Lock and Spring                                   | SUS (AISI - 301) - Nickel Plated                             |    |                               |                              |
|                                   | Adaptor                                                 | PPS - Black                                                  |    |                               |                              |
|                                   | Cable Clamp                                             | Bronze - Nickel Plated                                       |    |                               |                              |
|                                   | Boot/Backshell                                          | ABS - Black                                                  |    |                               |                              |
|                                   | Grommet                                                 | PU - Black                                                   |    |                               |                              |

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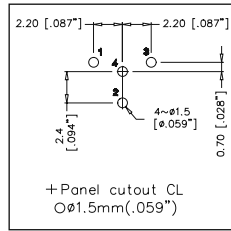
<sup>1)</sup> Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.



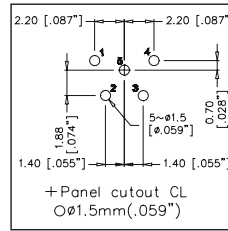
## PANEL CUTOUTS - CONNECTOR SIDE OF PCB



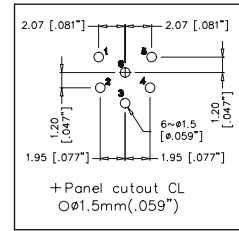
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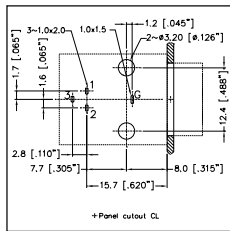
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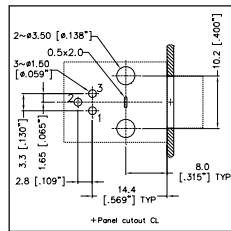
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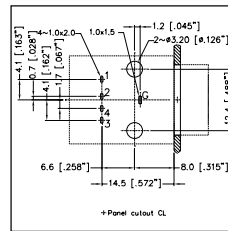
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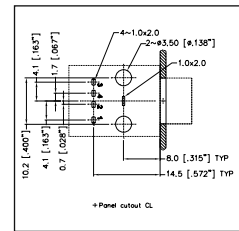
AG3FCCH



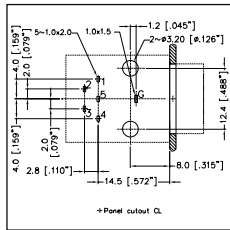
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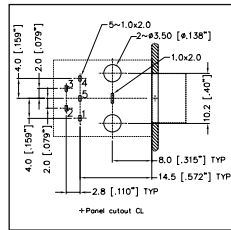
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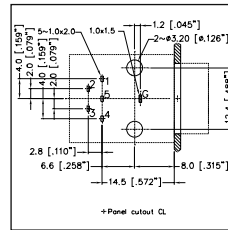
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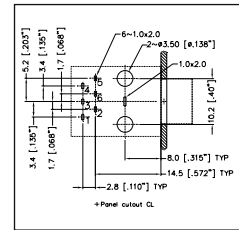
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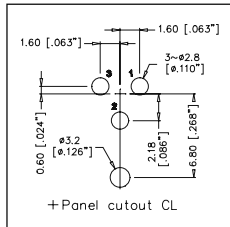
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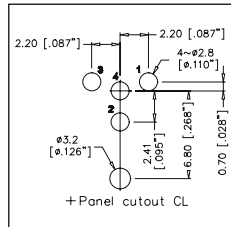
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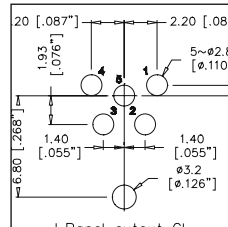
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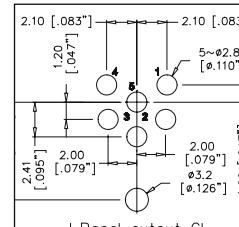
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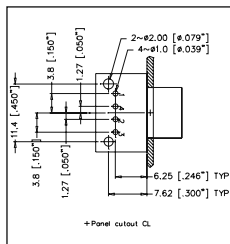
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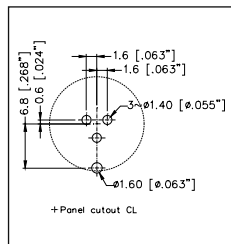
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AG6FCRV

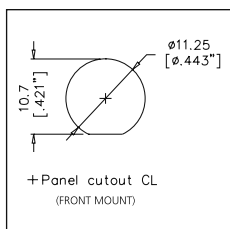


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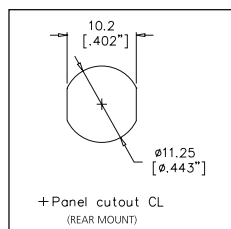


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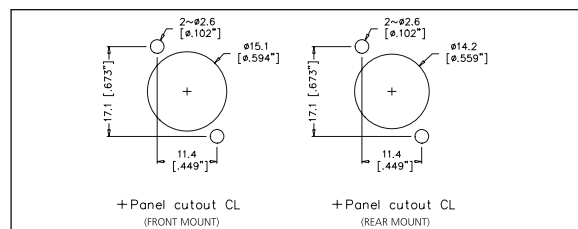
## PANEL CUTOUTS - FRONT VIEW



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
- Metal Housings

### Features / Options - MP-62 Series

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

### Ordering Codes

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

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

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



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

**Features:**

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

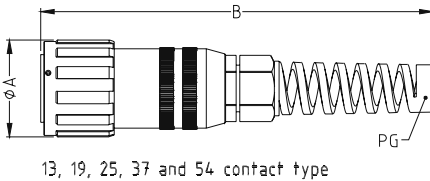
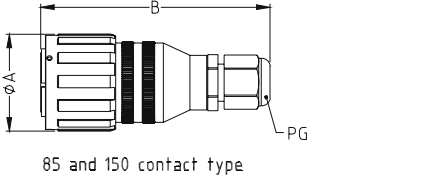
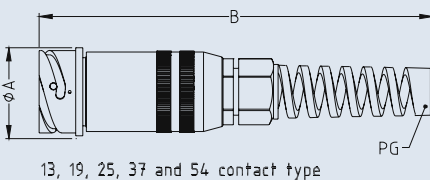
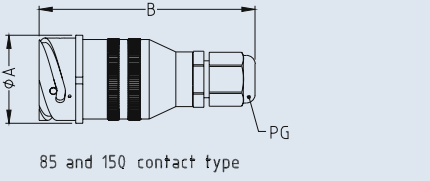
**Options:** NPT threaded backshells.

**Specifications:** Page 127

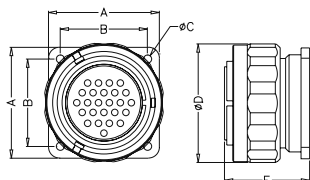
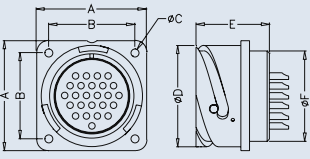
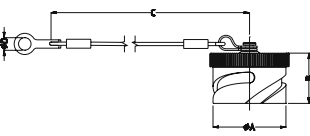
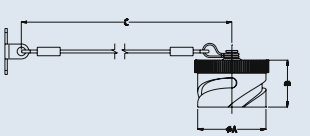
**Crimp Tooling:** Page 126

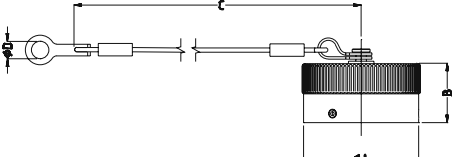
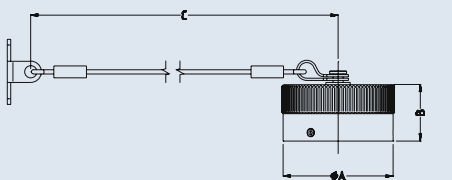
**Part Number Breakdown:** Page 126

**Wiring Information:** Page 136

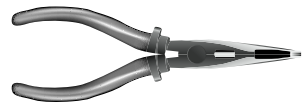
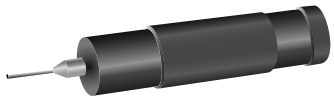
| PRODUCT - FIGURE                                                                    | Dimensions in mm (inches)<br>DRAWING                                                                                                                                                                                                                                                                                                                 | Dimensions in mm (inches) |               |      | PINS | PART NUMBER  | PART NUMBER<br>With Dustcap |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------|------|------|--------------|-----------------------------|
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                      | A                         | B             | PG   |      |              |                             |
|   | Straight cable plug with socket contacts, Black finish, supplied complete with contacts.<br><br><br>13, 19, 25, 37 and 54 contact type<br><br><br>85 and 150 contact type       | 40.5<br>(1.60)            | 160<br>(6.30) | 11   | 13   | MP-4106-13S  | MP-4106-13S-C               |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                      | 44<br>(1.73)              | 171<br>(6.73) | 13.5 | 19   | MP-4106-19S  | MP-4106-19S-C               |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                      | 46.6<br>(1.83)            | 193<br>(7.60) | 16   | 25   | MP-4106-25S  | MP-4106-25S-C               |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                      | 54.3<br>(2.14)            | 210<br>(8.26) | 21   | 37   | MP-4106-37S  | MP-4106-37S-C               |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                      | 60.1<br>(2.36)            | 210<br>(8.26) | 21   | 54   | MP-4106-54S  | MP-4106-54S-C               |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                      | 73.3<br>(2.88)            | 137<br>(5.40) | 29   | 85   | MP-4106-85S  | MP-4106-85S-C               |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                      | 73.3<br>(2.88)            | 145<br>(5.70) | 36   | 150  | MP-4106-150S | MP-4106-150S-C              |
|  | Cable connecting receptacle with pin contacts, black finish, supplied complete with contacts.<br><br><br>13, 19, 25, 37 and 54 contact type<br><br><br>85 and 150 contact type | 37.8<br>(1.49)            | 160<br>(6.30) | 11   | 13   | MP-4101-13P  | MP-4101-13P-C               |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                      | 41.1<br>(1.62)            | 171<br>(6.73) | 13.5 | 19   | MP-4101-19P  | MP-4101-19P-C               |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                      | 41.5<br>(1.63)            | 193<br>(7.60) | 16   | 25   | MP-4101-25P  | MP-4101-25P-C               |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                      | 51<br>(2.00)              | 210<br>(8.26) | 21   | 37   | MP-4101-37P  | MP-4101-37P-C               |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                      | 57.1<br>(2.25)            | 210<br>(8.26) | 21   | 54   | MP-4101-54P  | MP-4101-54P-C               |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                      | 70<br>(2.75)              | 137<br>(5.40) | 29   | 85   | MP-4101-85P  | MP-4101-85P-C               |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                      | 70<br>(2.75)              | 145<br>(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)<br>DRAWING                                                                                                                                         | Dimensions in mm (inches) |                |                |                 |                |                | PINS | PART NUMBER   | PART NUMBER<br>With Dustcap |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------|----------------|-----------------|----------------|----------------|------|---------------|-----------------------------|
|                                                                                     |                                                                                                                                                                              | A                         | B              | C              | D               | E              | F              |      |               |                             |
|    | <p>Panel plug with socket contacts, black finish, supplied complete with contacts.</p>      | 38<br>(1.49)              | 29.4<br>(1.15) | 3.2<br>(0.13)  | 40.5<br>(1.60)  | 38.8<br>(1.53) | N/A            | 13   | MP-4164-13S   | MP-4164-13S-C               |
|                                                                                     |                                                                                                                                                                              | 41<br>(1.61)              | 31.8<br>(1.25) | 3.2<br>(0.13)  | 44<br>(1.73)    | 38.8<br>(1.53) | N/A            | 19   | MP-4164-19S   | MP-4164-19S-C               |
|                                                                                     |                                                                                                                                                                              | 44.5<br>(1.75)            | 34.9<br>(1.37) | 3.73<br>(0.14) | 48.51<br>(1.91) | 40.6<br>(1.60) | N/A            | 25   | MP-4164-25S   | MP-4164-25S-C               |
|                                                                                     |                                                                                                                                                                              | 50.8<br>(1.99)            | 39.7<br>(1.56) | 3.73<br>(0.14) | 54.3<br>(2.14)  | 42<br>(1.65)   | N/A            | 37   | MP-4164-37S   | MP-4164-37S-C               |
|                                                                                     |                                                                                                                                                                              | 57<br>(2.24)              | 44.5<br>(1.75) | 4.39<br>(0.17) | 60.8<br>(2.40)  | 45<br>(1.77)   | N/A            | 54   | MP-4164-54S   | MP-4164-54S-C               |
|                                                                                     |                                                                                                                                                                              | 69.8<br>(2.74)            | 55.5<br>(2.18) | 4.39<br>(0.17) | 73.3<br>(2.88)  | 45<br>(1.77)   | N/A            | 85   | MP-4164-85S   | MP-4164-85S-C               |
|                                                                                     |                                                                                                                                                                              | 69.8<br>(2.74)            | 55.5<br>(2.18) | 4.39<br>(0.17) | 73.3<br>(2.88)  | 45<br>(1.77)   | N/A            | 150  | MP-4164-150S  | MP-4164-150S-C              |
|                                                                                     |                                                                                                                                                                              | 38<br>(1.49)              | 29.4<br>(1.15) | 3.23<br>(0.13) | 34.2<br>(1.34)  | 34.5<br>(1.35) | 29<br>(1.14)   | 13   | MP-4102-13P   | MP-4102-13P-C               |
|                                                                                     |                                                                                                                                                                              | 41<br>(1.61)              | 31.8<br>(1.25) | 3.23<br>(0.13) | 37.4<br>(1.47)  | 34.5<br>(1.35) | 32.2<br>(1.26) | 19   | MP-4102-19P   | MP-4102-19P-C               |
|   | <p>Panel receptacle with pin contacts, black finish, supplied complete with contacts.</p>  | 44.5<br>(1.75)            | 34.9<br>(1.37) | 3.73<br>(0.14) | 40.9<br>(1.61)  | 35.7<br>(1.40) | 35.3<br>(1.38) | 25   | MP-4102-25P   | MP-4102-25P-C               |
|                                                                                     |                                                                                                                                                                              | 50.8<br>(1.99)            | 39.7<br>(1.56) | 3.73<br>(0.14) | 46.7<br>(1.83)  | 36.5<br>(1.44) | 41.4<br>(1.62) | 37   | MP-4102-37P   | MP-4102-37P-C               |
|                                                                                     |                                                                                                                                                                              | 57<br>(2.24)              | 44.5<br>(1.75) | 4.30<br>(0.17) | 53.4<br>(2.10)  | 38.5<br>(1.52) | 47.8<br>(1.88) | 54   | MP-4102-54P   | MP-4102-54P-C               |
|                                                                                     |                                                                                                                                                                              | 69.8<br>(2.74)            | 55.5<br>(2.18) | 4.30<br>(0.17) | 65.5<br>(2.57)  | 38.5<br>(1.52) | 59<br>(2.32)   | 85   | MP-4102-85P   | MP-4102-85P-C               |
|                                                                                     |                                                                                                                                                                              | 69.8<br>(2.74)            | 55.5<br>(2.18) | 4.30<br>(0.17) | 65.5<br>(2.57)  | 38.5<br>(1.52) | 59<br>(2.32)   | 150  | MP-4102-150P  | MP-4102-150P-C              |
|                                                                                     |                                                                                                                                                                              | 34.16<br>(1.35)           | 31.5<br>(1.24) | 110<br>(4.33)  | 4.7<br>(0.18)   | -              | -              | 13   | MP-25042-13S  | -                           |
|                                                                                     |                                                                                                                                                                              | 37.36<br>(1.47)           | 31.5<br>(1.24) | 110<br>(4.33)  | 4.7<br>(0.18)   | -              | -              | 19   | MP-25042-19S  | -                           |
|                                                                                     |                                                                                                                                                                              | 40.87<br>(1.61)           | 31.5<br>(1.24) | 110<br>(4.33)  | 4.7<br>(0.18)   | -              | -              | 25   | MP-25042-25S  | -                           |
|                                                                                     |                                                                                                                                                                              | 46.68<br>(1.84)           | 31.5<br>(1.24) | 110<br>(4.33)  | 4.7<br>(0.18)   | -              | -              | 37   | MP-25042-37S  | -                           |
|  | <p>Plug protective dustcap to suit MP-4164 type.</p>                                      | 53.36<br>(2.10)           | 31.5<br>(1.24) | 110<br>(4.33)  | 5.5<br>(0.22)   | -              | -              | 54   | MP-25042-54S  | -                           |
|                                                                                     |                                                                                                                                                                              | 65.48<br>(2.58)           | 31.5<br>(1.24) | 110<br>(4.33)  | 5.5<br>(0.22)   | -              | -              | 85   | MP-25042-85S  | -                           |
|                                                                                     |                                                                                                                                                                              | 65.48<br>(2.58)           | 31.5<br>(1.24) | 110<br>(4.33)  | 5.5<br>(0.22)   | -              | -              | 150  | MP-25042-150S | -                           |
|                                                                                     |                                                                                                                                                                              | 38.8<br>(1.53)            | 20.7<br>(0.81) | 255<br>(8.07)  | -               | -              | -              | 13   | MP-25042-13L  | -                           |
|                                                                                     |                                                                                                                                                                              | 41.6<br>(1.64)            | 20.7<br>(0.81) | 255<br>(8.07)  | -               | -              | -              | 19   | MP-25042-19L  | -                           |
|                                                                                     |                                                                                                                                                                              | 45.3<br>(1.78)            | 20.7<br>(0.81) | 255<br>(8.07)  | -               | -              | -              | 25   | MP-25042-25L  | -                           |
|                                                                                     |                                                                                                                                                                              | 52.15<br>(2.05)           | 20.7<br>(0.81) | 255<br>(8.07)  | -               | -              | -              | 37   | MP-25042-37L  | -                           |
|                                                                                     |                                                                                                                                                                              | 58.6<br>(2.30)            | 20.7<br>(0.81) | 255<br>(8.07)  | -               | -              | -              | 54   | MP-25042-54L  | -                           |
|                                                                                     |                                                                                                                                                                              | 70.7<br>(2.78)            | 20.7<br>(0.81) | 255<br>(8.07)  | -               | -              | -              | 85   | MP-25042-85L  | -                           |
|  | <p>Receptacle protective dustcap to suit MP-4106 types.</p>                               | 70.7<br>(2.78)            | 20.7<br>(0.81) | 255<br>(8.07)  | -               | -              | -              | 150  | MP-25042-150L | -                           |

| PRODUCT - FIGURE                                                                   | Dimensions in mm (inches)<br>DRAWING                                                                                                       | Dimensions in mm (inches) |                |               |               |   |   | PINS | PART NUMBER   |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------|---------------|---------------|---|---|------|---------------|
|                                                                                    |                                                                                                                                            | A                         | B              | C             | D             | E | F |      |               |
|   | Plug protective dustcap to suit MP-4102 types.<br>        | 34.16<br>(1.35)           | 31.5<br>(1.24) | 110<br>(4.33) | 4.7<br>(0.18) | - | - | 13   | MP-25043-13S  |
|                                                                                    |                                                                                                                                            | 37.36<br>(1.47)           | 31.5<br>(1.24) | 110<br>(4.33) | 4.7<br>(0.18) | - | - | 19   | MP-25043-19S  |
|                                                                                    |                                                                                                                                            | 40.87<br>(1.61)           | 31.5<br>(1.24) | 110<br>(4.33) | 4.7<br>(0.18) | - | - | 25   | MP-25043-25S  |
|                                                                                    |                                                                                                                                            | 46.68<br>(1.84)           | 31.5<br>(1.24) | 110<br>(4.33) | 4.7<br>(0.18) | - | - | 37   | MP-25043-37S  |
|                                                                                    |                                                                                                                                            | 53.36<br>(2.10)           | 31.5<br>(1.24) | 110<br>(4.33) | 5.5<br>(0.22) | - | - | 54   | MP-25043-54S  |
|                                                                                    |                                                                                                                                            | 65.48<br>(2.58)           | 31.5<br>(1.24) | 110<br>(4.33) | 5.5<br>(0.22) | - | - | 85   | MP-25043-85S  |
|                                                                                    |                                                                                                                                            | 65.48<br>(2.58)           | 31.5<br>(1.24) | 110<br>(4.33) | 5.5<br>(0.22) | - | - | 150  | MP-25043-150S |
|  | Receptacle protective dustcap to suit MP-4101 types.<br> | 38.8<br>(1.53)            | 20.7<br>(0.81) | 255<br>(8.07) | -             | - | - | 13   | MP-25043-13L  |
|                                                                                    |                                                                                                                                            | 41.6<br>(1.64)            | 20.7<br>(0.81) | 255<br>(8.07) | -             | - | - | 19   | MP-25043-19L  |
|                                                                                    |                                                                                                                                            | 45.3<br>(1.78)            | 20.7<br>(0.81) | 255<br>(8.07) | -             | - | - | 25   | MP-25043-25L  |
|                                                                                    |                                                                                                                                            | 52.15<br>(2.05)           | 20.7<br>(0.81) | 255<br>(8.07) | -             | - | - | 37   | MP-25043-37L  |
|                                                                                    |                                                                                                                                            | 58.6<br>(2.30)            | 20.7<br>(0.81) | 255<br>(8.07) | -             | - | - | 54   | MP-25043-54L  |
|                                                                                    |                                                                                                                                            | 70.7<br>(2.78)            | 20.7<br>(0.81) | 255<br>(8.07) | -             | - | - | 85   | MP-25043-85L  |
|                                                                                    |                                                                                                                                            | 70.7<br>(2.78)            | 20.7<br>(0.81) | 255<br>(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<br>(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<br>(Soldering of this contact is not recommended) | 150 (Size 18)   | MP-108500    |

**NOTE:** Complete instructions for providing reliable crimped wire to contact terminations and inserting proprietary contacts in MP-41 Series connectors are available in publication Pi523 located on our website [www.amphenolaudio.com](http://www.amphenolaudio.com).

## PART NUMBER BREAKDOWN MP-41 SERIES

### MULTIPIN CIRCULAR CONNECTORS

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

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

# -41 SERIES

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

## STANDARD DATA MP-41 SERIES

|                            |                                        | VALUE                                        |                       |                       |                        |                        |                        |         |
|----------------------------|----------------------------------------|----------------------------------------------|-----------------------|-----------------------|------------------------|------------------------|------------------------|---------|
| GENERAL CHARACTERISTICS    | Number of contacts                     | 13                                           | 19                    | 25                    | 37                     | 54                     | 85                     | 150     |
|                            | Number of channels                     | 4                                            | 6                     | 8                     | 12                     | 16                     | 28                     | 48      |
|                            | Termination                            | Solder / Crimp "Combo"                       |                       |                       |                        |                        |                        | Crimp   |
|                            | Wire Gauge - Stranded Wire             | 16AWG - 20AWG                                |                       |                       |                        |                        |                        | 18AWG   |
|                            | Environmental                          | Complies with EU RoHS 2 Directive 2011/65/EU |                       |                       |                        |                        |                        |         |
| ELECTRICAL CHARACTERISTICS | 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                                       |                       |                       |                        |                        |                        |         |
| CLIMATIC CHARACTERISTICS   | Protection Class                       | IP67 (when mated)                            |                       |                       |                        |                        |                        |         |
|                            | Operating Temperature                  | -55°C to +125°C (-67°F to +257°F)            |                       |                       |                        |                        |                        |         |
| MECHANICAL CHARACTERISTICS | Cable Retention                        | PG Gland                                     |                       |                       |                        |                        |                        |         |
|                            | Mechanical Operations                  | 2000 mating cycles                           |                       |                       |                        |                        |                        |         |
| MATERIALS                  | 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                          |                       |                       |                        |                        |                        |         |
| CLAMPING CHARACTERISTICS   | PG Gland                               | 11                                           | 13.5                  | 16                    | 21                     | 29                     | 36                     |         |
|                            | Cable Clamping range<br>mm<br>(inches) | 4-10<br>(0.15"-0.39")                        | 5-12<br>(0.19"-0.47") | 9-14<br>(0.35"-0.55") | 13-18<br>(0.51"-0.70") | 14-25<br>(0.55"-0.98") | 19-32<br>(0.74"-1.25") |         |

\*Not suitable for domestic applications above 50V

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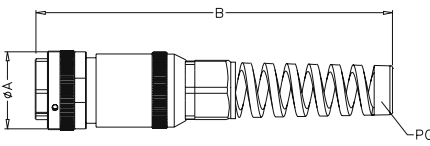
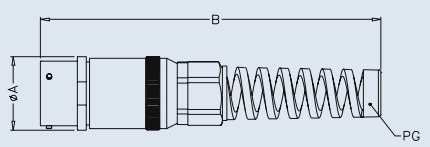
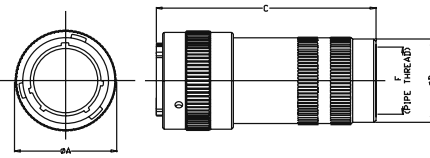
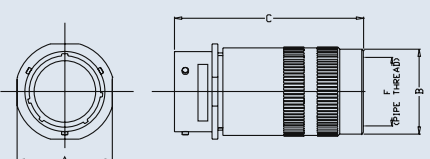


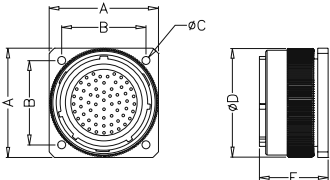
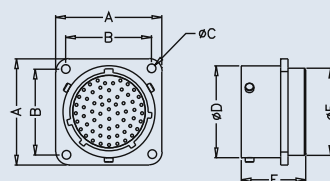
Amphenol's Multipin MP-62 series of circular connectors utilise the same design principles as the Mil-C-26482 military connectors. Featuring a three point quick mating bayonet coupling and five key polarisation ensuring a positive connection every time. Available in two contact pin layouts 39 and 61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

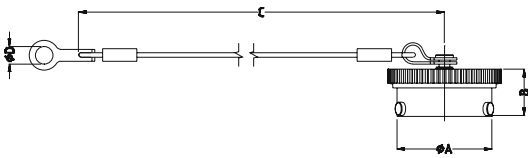
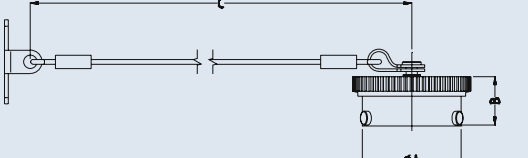
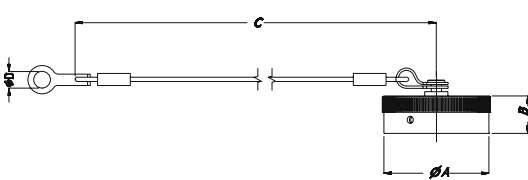
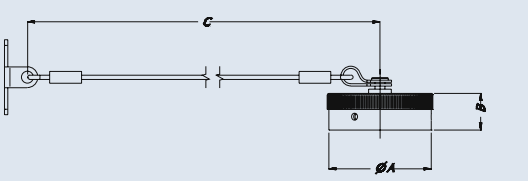
**Features:**

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

**Specifications: Page 130    Wiring Info: Page 135**

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

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

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



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

\*Not suitable for domestic applications above 50V

Rev 3 - 03/2013



## 146 SERIES RECTANGULAR CONNECTORS

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



## FIBRE OPTIC

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



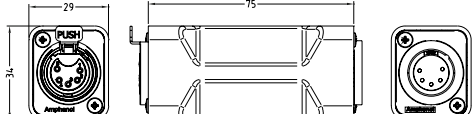
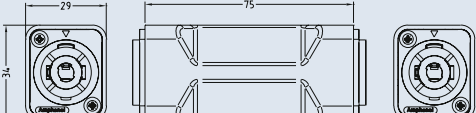
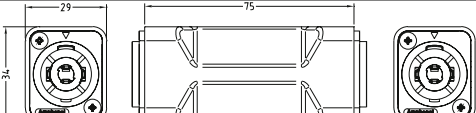
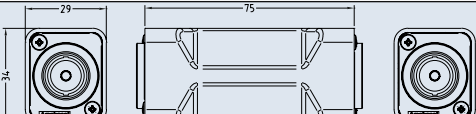
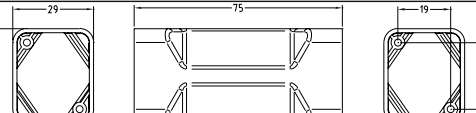
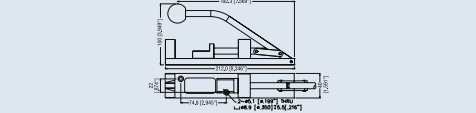
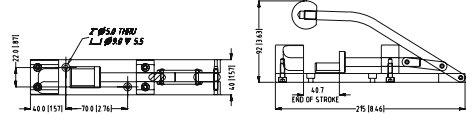
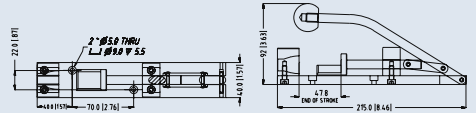
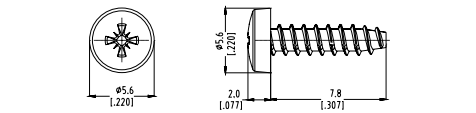
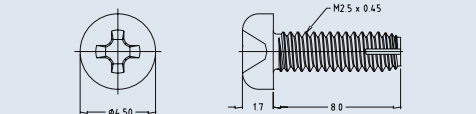
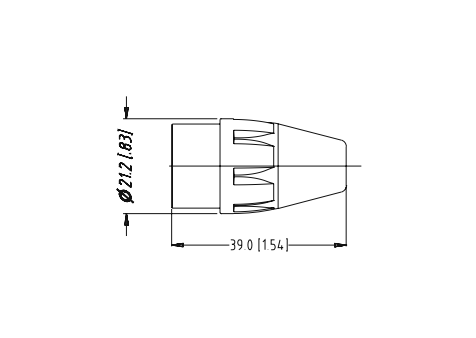


## ACCESSORIES

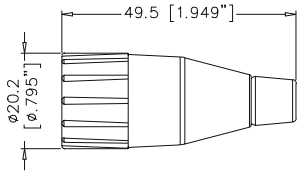
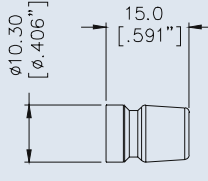
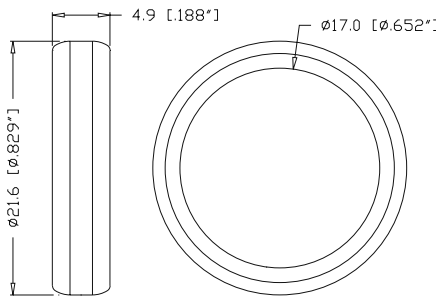
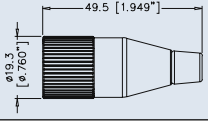
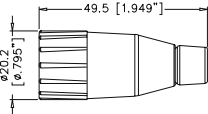
- Colour coded boots(backshells) and rings to assist in cable identification.
- In-line adaptors. Pre-wired for convenience.
- Termination tool for fast assembly of cable connectors.
- Mounting hardware.
- Metal boots(backshells) for rugged environments.

| PRODUCT - FIGURE | DRAWING | Dimensions in mm (inches)                        | DESCRIPTION                                                           | VARIATIONS                    | PART NUMBER          |
|------------------|---------|--------------------------------------------------|-----------------------------------------------------------------------|-------------------------------|----------------------|
|                  |         | 60.4 [2.378"]<br>ø19.0 [ø.748"]                  | XLR 3 pole male to 3 pole male adapter,<br>Pre wired, Metal Shell     | Nickel Finish<br>Black Finish | AC3M3MW<br>AC3M3MBW  |
|                  |         | 60.4 [2.378"]<br>ø19.0 [ø.748"]<br>66.5 [3.406"] | XLR 3 pole female to 3 pole female adapter,<br>Pre wired, Metal Shell | Nickel Finish<br>Black Finish | AC3F3FW<br>AC3F3FBW  |
|                  |         | 60.4 [2.378"]<br>ø19.0 [ø.748"]<br>73.0 [2.892"] | XLR 3 pole female to 3 pole male adapter,<br>Pre wired, Metal Shell   | Nickel Finish<br>Black Finish | AC3F3FBW<br>AC3F3MBW |
|                  |         | 62.5 [2.461"]<br>75.7 [2.980"]<br>ø18.9 [ø.744"] | XLR 3 pole female to 5 pole male adapter,<br>Pre wired, Metal Shell   | Nickel Finish                 | AC3F5MW              |
|                  |         | 62.5 [2.461"]<br>75.7 [2.980"]<br>ø18.9 [ø.744"] | XLR 3 pole male to 5 pole female adapter,<br>Pre wired, Metal Shell   | Nickel Finish                 | AC3M5FW              |
|                  |         | 76 [2.991"]<br>ø19 [ø.748"]                      | XLR 5 pole male to 5 pole male adapter,<br>Pre wired, Metal Shell     | Nickel Finish                 | AC5M5MW              |
|                  |         | 29<br>34<br>75                                   | XLR D shell adapter,<br>3 pole male to 3 pole male, Pre-wired         | Not Applicable                | AC3M3MDW             |
|                  |         | 29<br>34<br>75                                   | XLR D shell adapter, 3 pole female to 3 pole female, Pre-wired        | Not Applicable                | AC3F3FDW             |
|                  |         | 29<br>34<br>75                                   | XLR D shell adapter, 3 pole female to 3 pole male, Pre-wired          | Not Applicable                | AC3F3MDW             |
|                  |         | 29<br>34<br>75                                   | XLR D shell adapter, 5 pole male to 5 pole male, Pre-wired            | Not Applicable                | AC5M5MDW             |
|                  |         | 29<br>34<br>75                                   | XLR D shell adapter, 5 pole female to 5 pole female, Pre-wired        | Not Applicable                | AC5F5FDW             |

ACC.

| PRODUCT - FIGURE                                                                    | DRAWING                                                                             | Dimensions in mm (inches) | DESCRIPTION                                                  | VARIATIONS                                                                                     | PART NUMBER                                                                                                                                 |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------|--------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
|    |    |                           | XLR D shell adapter, 5 pole female to 5 pole male, Pre-wired | Not Applicable                                                                                 | AC5F5MDW                                                                                                                                    |
|    |    |                           | SP D shell adapter, SP-2 to SP-2, Pre-wired                  | Not Applicable                                                                                 | SP2F2FDW                                                                                                                                    |
|    |    |                           | SP D shell adapter, SP-4 to SP-4, Pre-wired                  | Not Applicable                                                                                 | SP4F4FDW                                                                                                                                    |
|    |    |                           | BNC D shell adapter, Jack to Jack, Pre-wired                 | Not Applicable                                                                                 | ACBNCJJDW                                                                                                                                   |
|    |    |                           | D shell adapter without connectors                           | Not Applicable                                                                                 | AC-D-ADAPTER                                                                                                                                |
|   |   |                           | 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                                                                        | 52500014-734                                                                                                                                |
|  |  |                           | B Type / XLRnet Connector Mounting, Self-Tapping Screw       | M2.5                                                                                           | 52500005-732                                                                                                                                |
|  |  |                           | AX Series Coloured Boot                                      | Brown<br>Red<br>Orange<br>Yellow<br>Green<br>Blue<br>Violet<br>Grey<br>White<br>Black<br>Clear | AX-BOOT-1<br>AX-BOOT-2<br>AX-BOOT-3<br>AX-BOOT-4<br>AX-BOOT-5<br>AX-BOOT-6<br>AX-BOOT-7<br>AX-BOOT-8<br>AX-BOOT-9<br>AX-BOOT<br>AX-BOOT-CLR |

ACC.

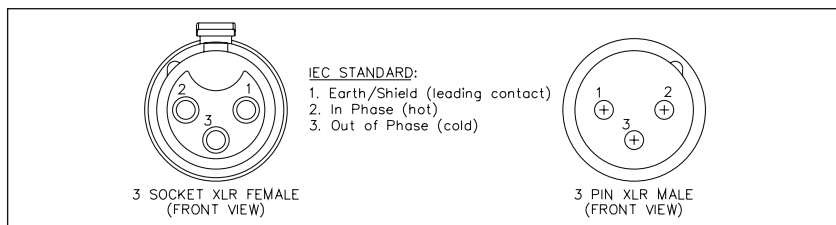
| PRODUCT - FIGURE                                                                    | DRAWING<br>Dimensions in mm (inches)                                                | DESCRIPTION                                                                                                                    | VARIATIONS     | PART NUMBER     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------|
|    |    | AC Coloured Boot / Backshell<br><br>Note: Number Identification optional. (Please contact us.)                                 | Brown          | AC-NUT-BRN      |
|                                                                                     |                                                                                     |                                                                                                                                | Red            | AC-NUT-RED      |
|                                                                                     |                                                                                     |                                                                                                                                | Orange         | AC-NUT-ORG      |
|                                                                                     |                                                                                     |                                                                                                                                | Yellow         | AC-NUT-YEL      |
|                                                                                     |                                                                                     |                                                                                                                                | Green          | AC-NUT-GRN      |
|                                                                                     |                                                                                     |                                                                                                                                | Blue           | AC-NUT-BLU      |
|                                                                                     |                                                                                     |                                                                                                                                | Violet         | AC-NUT-VIO      |
|                                                                                     |                                                                                     |                                                                                                                                | Grey           | AC-NUT-GRY      |
|                                                                                     |                                                                                     |                                                                                                                                | White          | AC-NUT-WHT      |
|    |    | Coloured Grommets to suit AC Series, T Series and Musician range                                                               | Brown          | AC-GROMMET-BRN  |
|                                                                                     |                                                                                     |                                                                                                                                | Red            | AC-GROMMET-RED  |
|                                                                                     |                                                                                     |                                                                                                                                | Orange         | AC-GROMMET-ORG  |
|                                                                                     |                                                                                     |                                                                                                                                | Yellow         | AC-GROMMET-YEL  |
|                                                                                     |                                                                                     |                                                                                                                                | Green          | AC-GROMMET-GRN  |
|                                                                                     |                                                                                     |                                                                                                                                | Blue           | AC-GROMMET-GRN  |
|                                                                                     |                                                                                     |                                                                                                                                | Violet         | AC-GROMMET-VIO  |
|                                                                                     |                                                                                     |                                                                                                                                | Grey           | AC-GROMMET-GRY  |
|                                                                                     |                                                                                     |                                                                                                                                | White          | AC-GROMMET-WHT  |
|  |  | AC Coloured Identification Rings – Plain and Numbered<br><br>Note: Custom number Identification optional. (Please contact us.) | Brown          | AC-RING-BRN     |
|                                                                                     |                                                                                     |                                                                                                                                | Red            | AC-RING-RED     |
|                                                                                     |                                                                                     |                                                                                                                                | Orange         | AC-RING-ORG     |
|                                                                                     |                                                                                     |                                                                                                                                | Yellow         | AC-RING-YEL     |
|                                                                                     |                                                                                     |                                                                                                                                | Green          | AC-RING-GRN     |
|                                                                                     |                                                                                     |                                                                                                                                | Blue           | AC-RING-BLU     |
|                                                                                     |                                                                                     |                                                                                                                                | Violet         | AC-RING-VIO     |
|                                                                                     |                                                                                     |                                                                                                                                | Grey           | AC-RING-GRY     |
|                                                                                     |                                                                                     |                                                                                                                                | White          | AC-RING-WHT     |
|                                                                                     |                                                                                     |                                                                                                                                | Red #1-24      | AC-RING-RED-PK1 |
|                                                                                     |                                                                                     |                                                                                                                                | Yellow #1-24   | AC-RING-YEL-PK1 |
|                                                                                     |                                                                                     |                                                                                                                                | Blue #1-24     | AC-RING-BLU-PK1 |
|                                                                                     |                                                                                     |                                                                                                                                | Red #1-48      | AC-RING-RED-PK2 |
|                                                                                     |                                                                                     |                                                                                                                                | Yellow #1-48   | AC-RING-YEL-PK2 |
|                                                                                     |                                                                                     |                                                                                                                                | Blue #1-48     | AC-RING-BLU-PK2 |
|  |  | 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 EU RoHS 2 Directive 2011/65/EU

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

## CONNECTOR WIRING INFORMATION

### XLR (Microphone / Patch Cables)

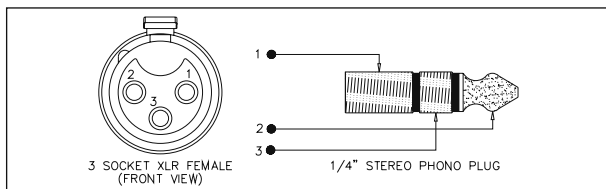


The standard XLR 3 contact pin outs are as shown above for a balanced lead. In such a configuration audio "Hot" (pin 2) is the in-phase connection whilst audio "Cold" (pin 3) is the out-of-phase connection. For an unbalanced lead however, you may connect pin 1 to either pin 2 or pin 3, but not both.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

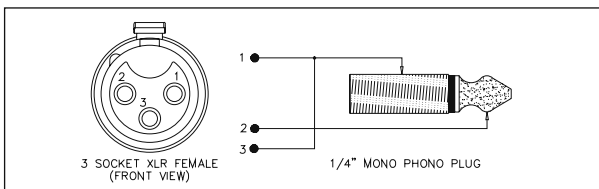
When terminating the cable shielding to pin 1 it is suggested that the shield be only grounded at one end of the cable to avoid inducing "hum". Pin 1 is a leading contact that engages at interconnection, before pin 2 or pin 3.

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

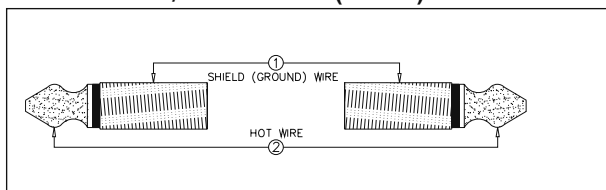
#### MICROPHONE CABLE - BALANCED



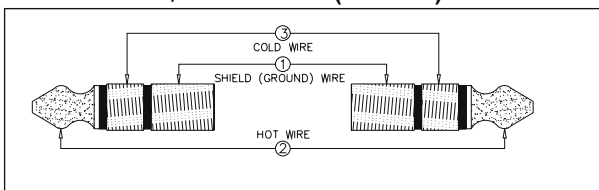
#### MICROPHONE CABLE - UNBALANCED



#### INSTRUMENT / LINE CABLE (MONO)



#### INSTRUMENT / LINE CABLE (STEREO)

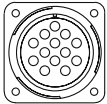


## CONNECTOR WIRING INFORMATION

### MP Series

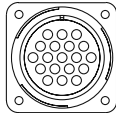
MP-41 Series  
4 Ch -13 pin

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



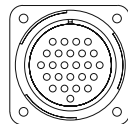
MP-41 Series  
6 Ch - 19 pin

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



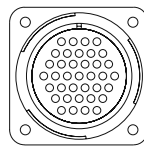
MP-41 Series  
8 Ch -25 pin

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



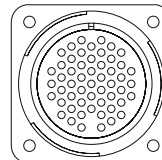
MP-41 Series  
12 Ch-37 pin

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



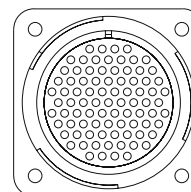
MP-41 Series  
16 Ch-54 pin

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



MP-41 Series  
28 Ch-85 pin

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

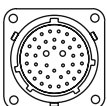


MP-41 Series  
48 Ch - 150 pin

| Ch      | +   | -   | G   |
|---------|-----|-----|-----|
| 1       | 1   | 2   | 3   |
| 2       | 5   | 6   | 7   |
| 3       | 8   | 9   | 10  |
| 4       | 11  | 12  | 13  |
| 5       | 14  | 15  | 16  |
| 6       | 17  | 18  | 19  |
| 7       | 21  | 22  | 23  |
| 8       | 24  | 25  | 26  |
| 9       | 27  | 28  | 29  |
| 10      | 20  | 30  | 31  |
| 11      | 32  | 33  | 34  |
| 12      | 35  | 36  | 37  |
| 13      | 38  | 39  | 40  |
| 14      | 41  | 42  | 43  |
| 15      | 44  | 45  | 46  |
| 16      | 47  | 48  | 49  |
| 17      | 50  | 51  | 52  |
| 18      | 53  | 54  | 55  |
| 19      | 57  | 58  | 59  |
| 20      | 60  | 61  | 62  |
| 21      | 63  | 64  | 65  |
| 22      | 66  | 67  | 68  |
| 23      | 69  | 70  | 71  |
| 24      | 72  | 73  | 74  |
| 25      | 75  | 76  | 77  |
| 26      | 78  | 79  | 80  |
| 27      | 82  | 83  | 84  |
| 28      | 85  | 86  | 87  |
| 29      | 88  | 89  | 90  |
| 30      | 91  | 92  | 93  |
| 31      | 94  | 95  | 96  |
| 32      | 97  | 98  | 99  |
| 33      | 100 | 101 | 102 |
| 34      | 103 | 104 | 105 |
| 35      | 56  | 81  | 106 |
| 36      | 107 | 108 | 109 |
| 37      | 110 | 111 | 112 |
| 38      | 113 | 114 | 115 |
| 39      | 116 | 117 | 118 |
| 40      | 119 | 120 | 121 |
| 41      | 122 | 123 | 124 |
| 42      | 125 | 126 | 127 |
| 43      | 139 | 128 | 129 |
| 44      | 130 | 131 | 132 |
| 45      | 133 | 134 | 135 |
| 46      | 136 | 137 | 138 |
| 47      | 140 | 141 | 142 |
| 48      | 143 | 144 | 145 |
| General |     |     |     |
| Ground  | 150 |     |     |

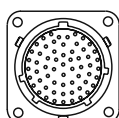
MP-62 Series  
12 Ch-39 pin

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



MP-62 Series  
20 Ch-61 pin

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



|                 |     |                |     |              |     |               |    |                 |     |
|-----------------|-----|----------------|-----|--------------|-----|---------------|----|-----------------|-----|
| Symbols         |     | AC3FDZB-AU     | 19  | AC4FB BULK   | 12  | AC5MPB        | 23 | AC-BNC20BP75    | 84  |
|                 |     | AC3FDZB BULK   | 19  | AC4FBJ       | 12  | AC5MPNZ       | 23 | AC-BNC20M       | 84  |
| 47-10070        | 83  | AC3FDZ BULK    | 19  | AC4F BULK    | 12  | AC5MPNZB      | 23 | AC-BNC20MJ75    | 84  |
| 47-10090        | 83  | AC3FJ          | 11  | AC4FDZ       | 20  | AC6AF         | 13 | AC-BNC20MP75    | 84  |
| 47-10110        | 83  | AC3FPZ         | 22  | AC4FDZ-AU    | 20  | AC6AF-AU      | 13 | AC-BNC40A       | 84  |
| 47-10120        | 83  | AC3FPZB        | 22  | AC4FDZB      | 20  | AC6AFB        | 13 | AC-BNC40AJ75    | 84  |
| 47-10150        | 83  | AC3M           | 11  | AC4FDZB-AU   | 20  | AC6AFB-AU     | 13 | AC-BNC40AP75    | 84  |
| 112119          | 82  | AC3M3MBW       | 132 | AC4FDZB BULK | 20  | AC6AFB BULK   | 13 | AC-BNC40B       | 84  |
| 112133          | 82  | AC3M3MDW       | 132 | AC4FDZ BULK  | 20  | AC6AFBJ       | 13 | AC-BNC40BJ75    | 84  |
| 112507          | 82  | AC3M3MW        | 132 | AC4FDZV      | 20  | AC6AF BULK    | 13 | AC-BNC40BP75    | 84  |
| 112508          | 82  | AC3M5FW        | 132 | AC4FDZVB     | 20  | AC6AFDZ       | 21 | AC-BNC40M       | 84  |
| 112509          | 82  | AC3MA-AU-PRE   | 30  | AC4FJ        | 12  | AC6AFDZ-AU    | 21 | AC-BNC40MJ75    | 84  |
| 112519          | 82  | AC3MAH1-AU-PRE | 29  | AC4FPZ       | 23  | AC6AFDZB      | 21 | AC-BNC40MP75    | 84  |
| 112521          | 82  | AC3MAH2-AU-PRE | 29  | AC4FPZB      | 23  | AC6AFDZB-AU   | 21 | AC-BNC-JJ-75    | 83  |
| 112565          | 82  | AC3MAH4-SW-B   | 29  | AC4M         | 12  | AC6AFDZB BULK | 21 | AC-BNC-JJ-75B   | 83  |
| 112606          | 82  | AC3MAH-AU-PRE  | 29  | AC4M-AU      | 12  | AC6AFDZ BULK  | 21 | AC-BNC-JJA-75T  | 83  |
| 112950          | 82  | AC3M-AU        | 11  | AC4MB        | 12  | AC6AFDZV      | 21 | ACBNCJJDW       | 133 |
| 112951          | 82  | AC3MAV2-AU-PRE | 30  | AC4MB-AU     | 12  | AC6AFDZVB     | 21 | AC-BNC-JS-75    | 83  |
| 112952          | 82  | AC3MAV-AU-PRE  | 29  | AC4MB BULK   | 12  | AC6AFJ        | 13 | AC-BNC-JS-75B   | 83  |
| 112953          | 82  | AC3MB          | 11  | AC4MBJ       | 12  | AC6AFPZ       | 23 | AC-BNC-LABEL    | 84  |
| 112955          | 82  | AC3MB-AU       | 11  | AC4M BULK    | 12  | AC6AFPZB      | 23 | AC-BNC-PJ-75    | 83  |
| 112956          | 82  | AC3MB BULK     | 11  | AC4MDZ       | 20  | AC6AM         | 13 | AC-BNC-PJ-75B   | 83  |
| 112957          | 82  | AC3MBH1-AU-B   | 32  | AC4MDZ-AU    | 20  | AC6AM-AU      | 13 | AC-BNC-PJA-75T  | 83  |
| 52500002-734    | 133 | AC3MBH2-AU-B   | 32  | AC4MDZB      | 20  | AC6AMB        | 13 | AC-D-ADAPTER    | 133 |
| 52500005-732    | 133 | AC3MBH3-AU-B   | 32  | AC4MDZB-AU   | 20  | AC6AMB-AU     | 13 | AC-GROMMET-BRN  | 134 |
|                 |     | AC3MBH-AU-B    | 32  | AC4MDZB BULK | 20  | AC6AMB BULK   | 13 | AC-GROMMET-GRN  | 134 |
| A               |     | AC3MBHL-AU-B   | 32  | AC4MDZV      | 20  | AC6AMBJ       | 13 | AC-GROMMET-GRY  | 134 |
|                 |     | AC3MBJ         | 11  | AC4MDZVB     | 20  | AC6AM BULK    | 13 | AC-GROMMET-ORG  | 134 |
| AC3F            | 11  | AC3M BULK      | 11  | AC4MJ        | 12  | AC6AMDZ       | 21 | AC-GROMMET-RED  | 134 |
| AC3F3FBW        | 132 | AC3MBV1-AU-B   | 33  | AC4MP        | 23  | AC6AMDZ-AU    | 21 | AC-GROMMET-VIO  | 134 |
| AC3F3FDW        | 132 | AC3MBV2-AU-B   | 33  | AC4MPB       | 23  | AC6AMDZB      | 21 | AC-GROMMET-WHT  | 134 |
| AC3F3FW         | 132 | AC3MBV3-AU-B   | 33  | AC4MPNZ      | 22  | AC6AMDZB-AU   | 21 | AC-GROMMET-YEL  | 134 |
| AC3F3MBW        | 132 | AC3MBV-AU-B    | 32  | AC4MPNZB     | 22  | AC6AMDZB BULK | 21 | ACJC5H BULK     | 46  |
| AC3F3MDW        | 132 | AC3MCP         | 15  | AC5F         | 12  | AC6AMDZ BULK  | 21 | ACJC5HL BULK    | 46  |
| AC3F5MW         | 132 | AC3MCP-AU      | 15  | AC55FDW      | 132 | AC6AMDZV      | 21 | ACJC5S BULK     | 46  |
| AC3FAH1-AU-PRE  | 30  | AC3MCP BULK    | 15  | AC55MDW      | 133 | AC6AMDZVB     | 21 | ACJC5SL BULK    | 46  |
| AC3FAH2-AU-PRE  | 30  | AC3MCPJ        | 15  | AC5FAH-AU-B  | 36  | AC6AMJ        | 13 | ACJC5V BULK     | 46  |
| AC3FAH-AU-PRE   | 30  | AC3MDZ         | 19  | AC5F-AU      | 12  | AC6AMP        | 23 | ACJC5VL BULK    | 46  |
| AC3FAHL1-AU-PRE | 30  | AC3MDZ-AU      | 19  | AC5FAV-AU-B  | 36  | AC6AMPB       | 23 | ACJC6AH BULK    | 44  |
| AC3FAHL2-AU-PRE | 30  | AC3MDZB        | 19  | AC5FB        | 12  | AC6AMPNZ      | 23 | ACJC6AHL BULK   | 44  |
| AC3FAHL-AU-PRE  | 30  | AC3MDZB-AU     | 19  | AC5FB-AU     | 12  | AC6AMPNZB     | 23 | ACJC6AV2 BULK   | 44  |
| AC3F-AU         | 11  | AC3MDZB BULK   | 19  | AC5FB BULK   | 12  | AC7F          | 13 | ACJC6AV2L BULK  | 44  |
| AC3FAV1-AU-PRE  | 31  | AC3MDZ BULK    | 19  | AC5FBJ       | 12  | AC7FB         | 13 | ACJC6AV BULK    | 44  |
| AC3FAV2-AU-PRE  | 31  | AC3MJ          | 11  | AC5F BULK    | 12  | AC7FB BULK    | 13 | ACJC6AVL BULK   | 44  |
| AC3FAV-AU-PRE   | 31  | AC3MM          | 11  | AC5FDZ       | 20  | AC7FBJ        | 13 | ACJC6H BULK     | 47  |
| AC3FAVL1-AU-PRE | 31  | AC3MM-AU       | 11  | AC5FDZ-AU    | 20  | AC7F BULK     | 13 | ACJC6HL BULK    | 47  |
| AC3FAVL2-AU-PRE | 31  | AC3MMB         | 11  | AC5FDZB      | 20  | AC7FDZ        | 21 | ACJC6S BULK     | 47  |
| AC3FAVL-AU-PRE  | 31  | AC3MMB-AU      | 11  | AC5FDZB-AU   | 20  | AC7FDZB       | 21 | ACJC6SL BULK    | 47  |
| AC3FB           | 11  | AC3MMB BULK    | 11  | AC5FDZB BULK | 20  | AC7FDZB BULK  | 21 | ACJC6V BULK     | 47  |
| AC3FB-AU        | 11  | AC3MMBJ        | 11  | AC5FDZ BULK  | 20  | AC7FDZ BULK   | 21 | ACJC6VL BULK    | 47  |
| AC3FB BULK      | 11  | AC3MM BULK     | 11  | AC5FDZV      | 20  | AC7FDZV       | 21 | ACJC9AH BULK    | 44  |
| AC3FBH1-AU-B    | 33  | AC3MMCP        | 15  | AC5FDZVB     | 20  | AC7FDZVB      | 21 | ACJC9AHL BULK   | 44  |
| AC3FBH2-AU-B    | 33  | AC3MMCP-AU     | 15  | AC5FJ        | 12  | AC7FJ         | 13 | ACJC9AV2 BULK   | 45  |
| AC3FBH3-AU-B    | 33  | AC3MMCP BULK   | 15  | AC5FPZ       | 23  | AC7FPZ        | 24 | ACJC9AV2L BULK  | 45  |
| AC3FBH-AU-B     | 33  | AC3MMCPJ       | 15  | AC5FPZB      | 23  | AC7FPZB       | 24 | ACJC9AVL BULK   | 45  |
| AC3FBHL1-AU-B   | 34  | AC3MMDZ        | 19  | AC5M         | 12  | AC7M          | 13 | ACJC9H BULK     | 47  |
| AC3FBHL2-AU-B   | 34  | AC3MMDZ-AU     | 19  | AC5M5MDW     | 132 | AC7MB         | 13 | ACJC9HL BULK    | 47  |
| AC3FBHL3-AU-B   | 34  | AC3MMDZB       | 19  | AC5M5MW      | 132 | AC7MB BULK    | 13 | ACJC9S BULK     | 48  |
| AC3FBHL-AU-B    | 33  | AC3MMDZB-AU    | 19  | AC5MAH-AU-B  | 36  | AC7MBJ        | 13 | ACJC9SL BULK    | 48  |
| AC3FBJ          | 11  | AC3MMDZB BULK  | 19  | AC5M-AU      | 12  | AC7M BULK     | 13 | ACJC9V BULK     | 48  |
| AC3F BULK       | 11  | AC3MMDZ BULK   | 19  | AC5MAV-AU-B  | 36  | AC7MDZ        | 21 | ACJC9VL BULK    | 48  |
| AC3FBV1-AU-B    | 34  | AC3MMDZV       | 19  | AC5MB        | 12  | AC7MDZB       | 21 | ACJC10AH BULK   | 45  |
| AC3FBV2-AU-B    | 34  | AC3MMDZVB      | 19  | AC5MB-AU     | 12  | AC7MDZB BULK  | 21 | ACJC10AHL BULK  | 45  |
| AC3FBV3-AU-B    | 34  | AC3MMJ         | 11  | AC5MB BULK   | 12  | AC7MDZ BULK   | 21 | ACJC10AV2 BULK  | 45  |
| AC3FBV-AU-B     | 34  | AC3MMP         | 22  | AC5MBJ       | 12  | AC7MDZV       | 21 | ACJC10AV2L BULK | 45  |
| AC3FBVL1-AU-B   | 35  | AC3MMPB        | 22  | AC5M BULK    | 12  | AC7MDZVB      | 21 | ACJC10AV BULK   | 45  |
| AC3FBVL2-AU-B   | 35  | AC3MMPNZ       | 22  | AC5MDZ       | 20  | AC7MJ         | 13 | ACJC10AVL BULK  | 45  |
| AC3FBVL3-AU-B   | 35  | AC3MMPNZB      | 22  | AC5MDZ-AU    | 20  | AC7MP         | 24 | ACJC10H BULK    | 48  |
| AC3FBVL-AU-B    | 34  | AC3MP          | 22  | AC5MDZB      | 20  | AC7MPB        | 24 | ACJC10HL BULK   | 48  |
| AC3FCP          | 15  | AC3MPB         | 22  | AC5MDZB-AU   | 20  | AC7MPNZ       | 24 | ACJC10S BULK    | 49  |
| AC3FCP-AU       | 15  | AC3MPNZ        | 22  | AC5MDZB BULK | 20  | AC7MPNZB      | 24 | ACJC10SL BULK   | 49  |
| AC3FCP BULK     | 15  | AC3MPNZB       | 22  | AC5MDZ BULK  | 20  | AC-BNC20A     | 84 | ACJC10V BULK    | 48  |
| AC3FCPJ         | 15  | AC4F           | 12  | AC5MDZV      | 20  | AC-BNC20AJ75  | 84 | ACJC10VL BULK   | 48  |
| AC3FDZ          | 19  | AC4F-AU        | 12  | AC5MDZVB     | 20  | AC-BNC20AP75  | 84 | ACJD-BLK        | 116 |
| AC3FDZ-AU       | 19  | AC4FB          | 12  | AC5MJ        | 12  | AC-BNC20B     | 84 | ACJD-BLU        | 116 |
| AC3FDZB         | 19  | AC4FR-AU       | 12  | AC5MP        | 23  | AC-BNC20BJ75  | 84 | ACJD-GRN        | 116 |

|                |     |                |     |                 |     |            |     |                 |     |
|----------------|-----|----------------|-----|-----------------|-----|------------|-----|-----------------|-----|
| ACJD-RED       | 116 | ACJS-MHOP      | 103 | ACPR-BLK        | 115 | AG6F       | 118 | AX-BOOT-8       | 133 |
| ACJD-WHT       | 116 | ACJS-MHOP-1    | 103 | ACPR-BLU        | 115 | AG6FCCH    | 118 | AX-BOOT-9       | 133 |
| ACJD-YEL       | 116 | ACJS-MHR       | 104 | ACPR-GRN        | 115 | AG6FCE     | 118 | AX-BOOT-CLR     | 133 |
| ACJM-HHDR      | 102 | ACJS-MHS       | 104 | ACPR-RED        | 115 | AG6FCRV    | 119 |                 |     |
| ACJM-HHOP      | 103 | ACJS-MIV-3     | 105 | ACPR-SBK        | 115 | AG6FL      | 118 | B               |     |
| ACJM-HHOP-1    | 103 | ACJS-MIV-3S    | 105 | ACPR-SBL        | 115 | AG6M       | 118 |                 |     |
| ACJM-IH        | 104 | ACJS-MIV-5     | 105 | ACPR-SGR        | 115 | AG6MCC     | 118 | BNC-U-LINK 75*1 | 83  |
| ACJM-IHS       | 104 | ACJS-MN-3      | 105 | ACPR-SRD        | 115 | AG6MCCH    | 118 | E               |     |
| ACJM-MC        | 104 | ACJS-MN-3S     | 105 | ACPR-SWH        | 115 | AP-4-11    | 66  |                 |     |
| ACJM - MH      | 103 | ACJS-MN-5      | 105 | ACPR-SYL        | 115 | AP-4-12    | 66  |                 |     |
| ACJM-MHD       | 105 | ACJS-MV-3      | 105 | ACPR-WHT        | 115 | AP-4-13    | 66  | EP-3-11P        | 64  |
| ACJM-MHD985    | 102 | ACJS-MV-3S     | 105 | ACPR-YEL        | 115 | AP-4-14    | 66  | EP-3-11PB       | 64  |
| ACJM-MHDC*     | 104 | ACJS-MV-5      | 105 | ACPS-GB         | 98  | AP-4-21    | 66  | EP-3-12         | 64  |
| ACJM-MHDCM     | 104 | ACJS-MV35-3    | 102 | ACPS-GB-AU      | 98  | AP-4-22    | 66  | EP-3-12B        | 64  |
| ACJM-MHDE      | 105 | ACJS-MV35-3S   | 102 | ACPS-GB BULK    | 98  | AP-5-11    | 66  | EP-3-13P        | 65  |
| ACJM-MHDEM     | 105 | ACJS-MV35-5    | 102 | ACPS-GN         | 98  | AP-5-12    | 66  | EP-3-13PB       | 65  |
| ACJM-MHDM      | 105 | ACJS-MVD985-3  | 102 | ACPS-GN-AU      | 98  | AP-5-13    | 66  | EP-3-14         | 65  |
| ACJM-MHDR      | 103 | ACJS-MVD985-3S | 102 | ACPS-GN BULK    | 98  | AP-5-14    | 66  | EP-3-14B        | 65  |
| ACJM-MHDRM     | 103 | ACJS-MVD985-5  | 102 | ACPS-KB         | 96  | AP-5-21    | 66  | EP-4-11P        | 64  |
| ACJM-MHOM      | 103 | ACJS-MVS-3     | 106 | ACPS-KB-AU      | 96  | AP-5-22    | 66  | EP-4-11PB       | 64  |
| ACJM-MHOP      | 103 | ACJS-MVS-3S    | 106 | ACPS-KB BULK    | 96  | AP-6-11    | 66  | EP-4-12         | 64  |
| ACJM-MHOP-1    | 103 | ACJS-MVS-5     | 106 | ACPS-KN         | 96  | AP-6-12    | 66  | EP-4-12B        | 64  |
| ACJM-MHR       | 104 | ACJS-NH35      | 102 | ACPS-KN-AU      | 96  | AP-6-13    | 66  | EP-4-13P        | 65  |
| ACJM-MHS       | 104 | ACJS-NV35-3    | 102 | ACPS-KN BULK    | 96  | AP-6-14    | 66  | EP-4-13PB       | 65  |
| ACJM-MIV-2     | 105 | ACJS-NV35-3S   | 102 | ACPS-RB         | 99  | AP-6-21    | 66  | EP-4-14         | 65  |
| ACJM-MIV-2S    | 105 | ACJS-NV35-5    | 102 | ACPS-RB-AU      | 99  | AP-6-22    | 66  | EP-4-14B        | 65  |
| ACJM-MN-2      | 105 | ACJS-PC        | 104 | ACPS-RB BULK    | 99  | AP-8-11    | 66  | EP-5-11P        | 64  |
| ACJM-MN-2S     | 105 | ACJS - PH      | 104 | ACPS-RN         | 99  | AP-8-12    | 66  | EP-5-11PB       | 64  |
| ACJM-MV-2      | 105 | ACJS-PHOP      | 103 | ACPS-RN-AU      | 99  | AP-8-13    | 66  | EP-5-12         | 64  |
| ACJM-MV-2S     | 105 | ACJS-PHOP-1    | 103 | ACPS-RN BULK    | 99  | AP-8-14    | 66  | EP-5-12B        | 64  |
| ACJM-MV35-2    | 102 | ACJS-PHR       | 104 | ACPS-TB         | 97  | AP-8-21    | 66  | EP-5-13P        | 65  |
| ACJM-MV35-2S   | 102 | ACJS-PHS       | 104 | ACPS-TB-AU      | 97  | AP-8-22    | 66  | EP-5-13PB       | 65  |
| ACJM-MVD985-2  | 102 | ACJS-PVB-3     | 105 | ACPS-TB BULK    | 97  | AX3F       | 4   | EP-5-14         | 65  |
| ACJM-MVD985-2S | 102 | ACJS-PVB-3S    | 105 | ACPS-TN         | 97  | AX3F-AU    | 4   | EP-5-14B        | 65  |
| ACJM-MVS-2     | 106 | ACJS-PVB-5     | 105 | ACPS-TN-AU      | 97  | AX3FB      | 4   | EP-6-11P        | 64  |
| ACJM-MVS-2S    | 106 | AC-NUT-BLU     | 134 | ACPS-TN BULK    | 97  | AX3FB-AU   | 4   | EP-6-11PB       | 64  |
| ACJM-NH35      | 102 | AC-NUT-BRN     | 134 | AC-RING-BLU     | 134 | AX3FB BULK | 4   | EP-6-12         | 64  |
| ACJM-NV35-2    | 102 | AC-NUT-GRN     | 134 | AC-RING-BLU-PK1 | 134 | AX3F BULK  | 4   | EP-6-12B        | 64  |
| ACJM-NV35-2S   | 102 | AC-NUT-GRY     | 134 | AC-RING-BLU-PK2 | 134 | AX3M       | 4   | EP-6-13P        | 65  |
| ACJM-PC        | 104 | AC-NUT-J-BLK   | 134 | AC-RING-BRN     | 134 | AX3M-AU    | 4   | EP-6-13PB       | 65  |
| ACJM - PH      | 103 | AC-NUT-METAL   | 134 | AC-RING-GRN     | 134 | AX3MB      | 4   | EP-6-14         | 65  |
| ACJM-PHOP      | 103 | AC-NUT-ORG     | 134 | AC-RING-GRY     | 134 | AX3MB-AU   | 4   | EP-6-14B        | 65  |
| ACJM-PHOP-1    | 103 | AC-NUT-RED     | 134 | AC-RING-ORG     | 134 | AX3MB BULK | 4   | EP-8-11P        | 64  |
| ACJM-PHR       | 104 | AC-NUT-VIO     | 134 | AC-RING-RED     | 134 | AX3M BULK  | 4   | EP-8-11PB       | 64  |
| ACJM-PHS       | 104 | AC-NUT-WHT     | 134 | AC-RING-RED-PK1 | 134 | AX4F       | 5   | EP-8-12         | 64  |
| ACJM-PVB-2     | 105 | AC-NUT-YEL     | 134 | AC-RING-RED-PK2 | 134 | AX4F-AU    | 5   | EP-8-12B        | 64  |
| ACJM-PVB-2S    | 105 | ACPL-CBK       | 115 | AC-RING-VIO     | 134 | AX4FB      | 5   | EP-8-13P        | 65  |
| ACJR-BLK       | 115 | ACPL-CBL       | 115 | AC-RING-WHT     | 134 | AX4FB-AU   | 5   | EP-8-13PB       | 65  |
| ACJR-BLU       | 115 | ACPL-CGR       | 115 | AC-RING-YEL     | 134 | AX4FB BULK | 5   | EP-8-14         | 65  |
| ACJR-GRN       | 115 | ACPL-CRD       | 115 | AC-RING-YEL-PK1 | 134 | AX4F BULK  | 5   | EP-8-14B        | 65  |
| ACJR-RED       | 115 | ACPL-CWH       | 115 | AC-RING-YEL-PK2 | 134 | AX4M       | 4   |                 |     |
| ACJR-SBK       | 115 | ACPL-CYL       | 115 | AG3F            | 118 | AX4M-AU    | 4   | H               |     |
| ACJR-SBL       | 115 | ACPM-GB        | 98  | AG3FCCH         | 118 | AX4MB      | 5   |                 |     |
| ACJR-SGR       | 115 | ACPM-GB-AU     | 98  | AG3FCE          | 118 | AX4MB-AU   | 5   | HP-3-F          | 62  |
| ACJR-SRD       | 115 | ACPM-GB BULK   | 98  | AG3FCRV         | 119 | AX4MB BULK | 5   | HP-3-FG         | 62  |
| ACJR-SWH       | 115 | ACPM-GN        | 98  | AG3FL           | 118 | AX4M BULK  | 4   | HP-3-MD         | 62  |
| ACJR-SYL       | 115 | ACPM-GN-AU     | 98  | AG3M            | 118 | AX5F       | 5   | HP-3-MDG        | 62  |
| ACJR-WHT       | 115 | ACPM-GN BULK   | 98  | AG3MCC          | 118 | AX5F-AU    | 5   | HP-3-MDGW       | 62  |
| ACJR-YEL       | 115 | ACPM-KB        | 96  | AG3MCCH         | 118 | AX5FB      | 5   | HP-3-MDW        | 62  |
| ACJS-HHDR      | 102 | ACPM-KB-AU     | 96  | AG4F            | 118 | AX5FB-AU   | 5   |                 |     |
| ACJS-HHOP      | 103 | ACPM-KB BULK   | 96  | AG4FCCH         | 118 | AX5FB BULK | 5   | J               |     |
| ACJS-HHOP-1    | 103 | ACPM-KN        | 96  | AG4FCE          | 118 | AX5F BULK  | 5   |                 |     |
| ACJS-IH        | 104 | ACPM-KN-AU     | 96  | AG4FCRV         | 119 | AX5M       | 5   | JM2P            | 93  |
| ACJS-IHS       | 104 | ACPM-KN-BULK   | 96  | AG4FL           | 118 | AX5M-AU    | 5   | JM2P-AU         | 93  |
| ACJS-MC        | 104 | ACPM-RB        | 99  | AG4M            | 118 | AX5MB      | 5   | JM2PB           | 93  |
| ACJS - MH      | 104 | ACPM-RB-AU     | 99  | AG4MCC          | 118 | AX5MB-AU   | 5   | JM2PB-AU        | 93  |
| ACJS-MHD       | 105 | ACPM-RB BULK   | 99  | AG4MCCH         | 118 | AX5MB BULK | 5   | JM2PB BULK      | 93  |
| ACJS-MHD985    | 102 | ACPM-RN        | 99  | AG4MPCH         | 119 | AX5M BULK  | 5   | JM2P BULK       | 93  |
| ACJS-MHDC*     | 104 | ACPM-RN-AU     | 99  | AG5F            | 118 | AX-BOOT    | 133 | JS3P            | 93  |
| ACJS-MHDCM     | 104 | ACPM-RN BULK   | 99  | AG5FCCH         | 118 | AX-BOOT-1  | 133 | JS3P-AU         | 93  |
| ACJS-MHDE      | 105 | ACPM-TB        | 97  | AG5FCE          | 118 | AX-BOOT-2  | 133 | JS3PB           | 93  |
| ACJS-MHDEM     | 105 | ACPM-TB-AU     | 97  | AG5FCRV         | 119 | AX-BOOT-3  | 133 | JS3PB-AU        | 93  |
| ACJS-MHDM      | 105 | ACPM-TB BULK   | 97  | AG5FL           | 118 | AX-BOOT-4  | 133 | JS3P BULK       | 93  |
| ACJS-MHDR      | 103 | ACPM-TN        | 97  | AG5M            | 118 | AX-BOOT-5  | 133 |                 |     |
| ACJS-MHDRM     | 103 | ACPM-TN-AU     | 97  | AG5MCC          | 118 | AX-BOOT-6  | 133 | K               |     |
| ACJS-MHOM      | 103 | ACPM-TN BULK   | 97  | AG5MCCH         | 118 | AX-BOOT-7  | 133 | KM2P            | 112 |

|                |     |                |     |              |     |             |     |             |    |
|----------------|-----|----------------|-----|--------------|-----|-------------|-----|-------------|----|
| KM2P-AU        | 112 | MP-4164-54S-C  | 124 | RJX8FB5HRGB  | 73  | SP-2-FBSL   | 53  | TM2PJ       | 89 |
| KM2PB          | 112 | MP-4164-85S    | 124 | RJX8FB5HRGEB | 74  | SP-2-FG     | 53  | TM2PN       | 90 |
| KM2PB-AU       | 112 | MP-4164-85S-C  | 124 | RJX8FB5HRRB  | 73  | SP-2-FL     | 53  | TM2PN-AU    | 90 |
| KM2PB BULK     | 112 | MP-4164-150S   | 124 | RJX8FB5HRREB | 74  | SP-2-FN     | 53  | TM2PN BULK  | 90 |
| KM2P BULK      | 112 | MP-4164-150S-C | 124 | RJX8FB5HRYB  | 73  | SP-2-FNG    | 53  | TM2PNJ      | 90 |
| KS3P           | 112 | MP-6211-39S    | 128 | RJX8FB5HRYEB | 74  | SP-2-FNL    | 53  | TM2R        | 90 |
| KS3P-AU        | 112 | MP-6211-39S-C  | 128 | RJX8FB5HUUB  | 73  | SP-2-FNS    | 53  | TM2RB       | 90 |
| KS3PB          | 112 | MP-6211-61S    | 128 | RJX8FB5HUUEB | 74  | SP-2-FNSG   | 53  | TM2RBJ      | 90 |
| KS3PB-AU       | 112 | MP-6211-61S-C  | 128 | RJX8FB5VB    | 74  | SP-2-FNSL   | 53  | TM2RBJ-AU   | 90 |
| KS3PB BULK     | 112 | MP-6216-39P    | 128 | RJX8FB5VEB   | 74  | SP-2-FS     | 53  | TM2RBJ BULK | 90 |
| KS3P BULK      | 112 | MP-6216-39P-C  | 128 | RJX8FB5VGRB  | 74  | SP-2-FSG    | 53  | TM2RJ       | 90 |
| KS3PC          | 112 | MP-6216-61P    | 128 | RJX8FB5VGREB | 75  | SP-2-FSL    | 53  | TM2RJ-AU    | 90 |
| KS3PC-AU       | 112 | MP-6216-61P-C  | 128 | RJX8FB5VGYB  | 74  | SP-2-MD     | 55  | TM2RJ BULK  | 90 |
|                |     | MP-6511-39S    | 128 | RJX8FB5VGYEB | 75  | SP-2-MDH    | 55  | TS3P        | 89 |
| M              |     | MP-6511-39S-C  | 128 | RJX8FB5VRGB  | 74  | SP-2-MDV    | 55  | TS3P-AU     | 89 |
|                |     | MP-6511-61S    | 128 | RJX8FB5VRGEB | 75  | SP-4-F      | 54  | TS3PB       | 89 |
| M22520/1-01    | 126 | MP-6511-61S-C  | 128 | RJX8FB5VRRB  | 74  | SP4F4FDW    | 133 | TS3PB-AU    | 89 |
| MP-738-39L     | 129 | MP-6516-39P    | 128 | RJX8FB5VRREB | 75  | SP-4-FB     | 54  | TS3PB BULK  | 89 |
| MP-738-39S     | 129 | MP-6516-39P-C  | 128 | RJX8FB5VRYB  | 74  | SP-4-FBG    | 54  | TS3PBj      | 89 |
| MP-738-61L     | 129 | MP-6516-61P    | 128 | RJX8FB5VRYEB | 75  | SP-4-FBL    | 54  | TS3PBM      | 90 |
| MP-738-61S     | 129 | MP-6516-61P-C  | 128 | RJX8FB5VUUB  | 74  | SP-4-FBS    | 54  | TS3PBM-AU   | 90 |
| MP-742-39L     | 129 | MP-25042-13L   | 124 | RJX8FB5VUUEB | 75  | SP-4-FBSG   | 54  | TS3PBM BULK | 90 |
| MP-742-39S     | 129 | MP-25042-13S   | 124 | RJX8FB6HB    | 73  | SP-4-FBSL   | 54  | TS3PBMJ     | 90 |
| MP-742-61L     | 129 | MP-25042-19L   | 124 | RJX8FB6HEB   | 73  | SP-4-FG     | 54  | TS3P BULK   | 89 |
| MP-742-61S     | 129 | MP-25042-19S   | 124 | RJX8FB6HGRB  | 73  | SP-4-FL     | 54  | TS3PJ       | 89 |
| MP-4101-13P    | 123 | MP-25042-25L   | 124 | RJX8FB6HGREB | 74  | SP-4-FN     | 54  | TS3PN       | 90 |
| MP-4101-13P-C  | 123 | MP-25042-25S   | 124 | RJX8FB6HGYB  | 73  | SP-4-FNG    | 54  | TS3PN-AU    | 90 |
| MP-4101-19P    | 123 | MP-25042-37L   | 124 | RJX8FB6HGYEB | 74  | SP-4-FNL    | 54  | TS3PN BULK  | 90 |
| MP-4101-19P-C  | 123 | MP-25042-37S   | 124 | RJX8FB6HRGB  | 73  | SP-4-FNS    | 54  | TS3PNJ      | 90 |
| MP-4101-25P    | 123 | MP-25042-54L   | 124 | RJX8FB6HRGEB | 74  | SP-4-FNSG   | 54  | TS3R        | 90 |
| MP-4101-25P-C  | 123 | MP-25042-54S   | 124 | RJX8FB6HRRB  | 73  | SP-4-FNSL   | 54  | TS3RB       | 90 |
| MP-4101-37P    | 123 | MP-25042-85L   | 124 | RJX8FB6HRRB  | 74  | SP-4-FS     | 54  | TS3RBJ      | 90 |
| MP-4101-37P-C  | 123 | MP-25042-85S   | 124 | RJX8FB6HRYB  | 73  | SP-4-FSG    | 54  | TS3RBJ-AU   | 90 |
| MP-4101-54P    | 123 | MP-25042-150L  | 124 | RJX8FB6HRYEB | 74  | SP-4-FSL    | 54  | TS3RBJ BULK | 90 |
| MP-4101-54P-C  | 123 | MP-25042-150S  | 124 | RJX8FB6HUUB  | 73  | SP-4-MC     | 56  | TS3RJ       | 90 |
| MP-4101-85P    | 123 | MP-25043-13L   | 125 | RJX8FB6HUUEB | 74  | SP-4-MD     | 55  | TS3RJ-AU    | 90 |
| MP-4101-85P-C  | 123 | MP-25043-13S   | 125 | RJX8FB6VB    | 74  | SP-4-MD-8   | 55  | TS3RJ BULK  | 90 |
| MP-4101-150P   | 123 | MP-25043-19L   | 125 | RJX8FB6VEB   | 74  | SP-4-MDH    | 55  |             |    |
| MP-4101-150P-C | 123 | MP-25043-19S   | 125 | RJX8FB6VGRB  | 74  | SP-4-MDHT   | 56  |             |    |
| MP-4102-13P    | 124 | MP-25043-25L   | 125 | RJX8FB6VGREB | 75  | SP-4-MDHT-8 | 55  |             |    |
| MP-4102-13P-C  | 124 | MP-25043-25S   | 125 | RJX8FB6VGYB  | 74  | SP-4-MDT    | 55  |             |    |
| MP-4102-19P    | 124 | MP-25043-37L   | 125 | RJX8FB6VGYEB | 75  | SP-4-MDV    | 56  |             |    |
| MP-4102-19P-C  | 124 | MP-25043-37S   | 125 | RJX8FB6VRGB  | 74  | SP-4-MDV-2  | 56  |             |    |
| MP-4102-25P    | 124 | MP-25043-54L   | 125 | RJX8FB6VRGEB | 75  | SP-4-MDVT-8 | 56  |             |    |
| MP-4102-25P-C  | 124 | MP-25043-54S   | 125 | RJX8FB6VRRB  | 74  |             |     |             |    |
| MP-4102-37P    | 124 | MP-25043-85L   | 125 | RJX8FB6VRREB | 75  | T           |     |             |    |
| MP-4102-37P-C  | 124 | MP-25043-85S   | 125 | RJX8FB6VRYB  | 74  |             |     |             |    |
| MP-4102-54P    | 124 | MP-25043-150L  | 125 | RJX8FB6VRYEB | 75  | T2860       | 133 |             |    |
| MP-4102-54P-C  | 124 | MP-25043-150S  | 125 | RJX8FB6VUUB  | 74  | T2880       | 133 |             |    |
| MP-4102-85P    | 124 | MP-108300      | 126 | RJX8FB6VUUEB | 75  | T2890       | 133 |             |    |
| MP-4102-85P-C  | 124 | MP-108400      | 126 | RJX8FD3HB    | 77  | TH29-1      | 126 |             |    |
| MP-4102-150P   | 124 | MP-108500      | 126 | RJX8FD3VB    | 77  | TM1P        | 91  |             |    |
| MP-4102-150P-C | 124 | MP-108600      | 126 | RJX8FD5HB    | 77  | TM1P-AU     | 91  |             |    |
| MP-4106-13S    | 123 | MP-EXT-16/18   | 126 | RJX8FD5I     | 77  | TM1PB       | 91  |             |    |
| MP-4106-13S-C  | 123 | MP-GUIDE-16    | 126 | RJX8FD5T     | 77  | TM1PB-AU    | 91  |             |    |
| MP-4106-19S    | 123 | MP-GUIDE-18    | 126 | RJX8FD5VB    | 77  | TM1PB BULK  | 91  |             |    |
| MP-4106-19S-C  | 123 | MP-INS-16      | 126 | RJX8FD6HB    | 77  | TM1PBj      | 91  |             |    |
| MP-4106-25S    | 123 | MP-INS-18      | 126 | RJX8FD6I     | 77  | TM1P BULK   | 91  |             |    |
| MP-4106-25S-C  | 123 |                |     | RJX8FD6T     | 77  | TM1PJ       | 91  |             |    |
| MP-4106-37S    | 123 | R              |     | RJX8FD6VB    | 77  | TM1RBJ      | 91  |             |    |
| MP-4106-37S-C  | 123 |                |     | RJX8FD5110   | 77  | TM1RBJ-AU   | 91  |             |    |
| MP-4106-54S    | 123 | RJX8FA3HB      | 73  | RJX8FD6110   | 77  | TM1RBJ BULK | 91  |             |    |
| MP-4106-54S-C  | 123 | RJX8FA3VB      | 74  | RJX8M        | 70  | TM1RJ       | 91  |             |    |
| MP-4106-85S    | 123 | RJX8FA5VB      | 74  | RJX8MB       | 70  | TM1RJ-AU    | 91  |             |    |
| MP-4106-85S-C  | 123 | RJX8FA6HB      | 73  | RJX8MB BULK  | 70  | TM1RJ BULK  | 91  |             |    |
| MP-4106-150S   | 123 | RJX8FA6VB      | 74  |              |     | TM2P        | 89  |             |    |
| MP-4106-150S-C | 123 | RJX8FB3HB      | 73  | S            |     | TM2P-AU     | 89  |             |    |
| MP-4164-13S    | 124 | RJX8FB3HEB     | 73  | SP-2-F       | 53  | TM2PB       | 89  |             |    |
| MP-4164-13S-C  | 124 | RJX8FB3VB      | 74  | SP2F2FDW     | 133 | TM2PB-AU    | 89  |             |    |
| MP-4164-19S    | 124 | RJX8FB3VEB     | 74  | SP-2-FB      | 53  | TM2PB BULK  | 89  |             |    |
| MP-4164-19S-C  | 124 | RJX8FB5HB      | 73  | SP-2-FBG     | 53  | TM2PBj      | 89  |             |    |
| MP-4164-25S    | 124 | RJX8FB5HEB     | 73  | SP-2-FBL     | 53  | TM2PBM      | 90  |             |    |
| MP-4164-25S-C  | 124 | RJX8FB5HGRB    | 73  | SP-2-FBS     | 53  | TM2PBM-AU   | 90  |             |    |
| MP-4164-37S    | 124 | RJX8FB5HGREB   | 74  | SP-2-FBSL    | 53  | TM2PBM BULK | 90  |             |    |
| MP-4164-37S-C  | 124 | RJX8FB5HGYB    | 73  |              |     | TM2PBMj     | 90  |             |    |
| MP-4164-54S    | 124 | RJX8FB5HGYEB   | 74  |              |     | TM2P BULK   | 89  |             |    |

## 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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Catalogue Part Number: CAT-AUDIO-01

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