



## 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 100 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.



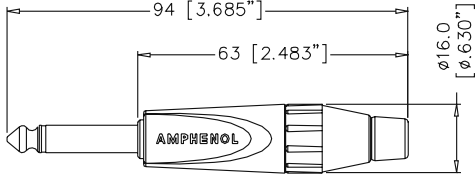
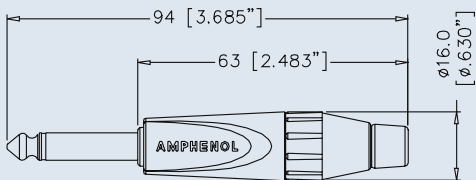
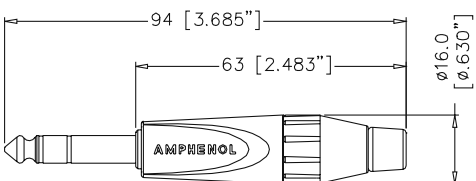
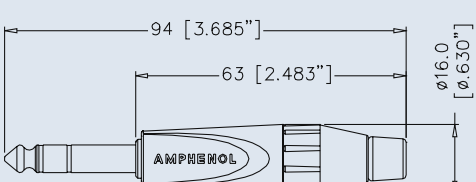


## Features:

- 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" (6.35mmØ)<br>Mono Phone plug,<br>Jaws cable clamp,<br>Thermoplastic back-shell,<br>Satin finish.   | Standard             | TM2P        |
|                                                                                     |                                                                                     |                                                                                                         | Gold Plated Contacts | TM2P-AU     |
|                                                                                     |                                                                                     |                                                                                                         | Large Cable Clamp    | TM2PJ       |
|                                                                                     |                                                                                     |                                                                                                         | Bulk Pack            | TM2P BULK   |
|  |  | 1/4" (6.35mmØ)<br>Mono Phone plug,<br>Jaws cable clamp,<br>Thermoplastic back-shell,<br>Black finish.   | Standard             | TM2PB       |
|                                                                                     |                                                                                     |                                                                                                         | Gold Plated Contacts | TM2PB-AU    |
|                                                                                     |                                                                                     |                                                                                                         | Large Cable Clamp    | TM2PBJ      |
|                                                                                     |                                                                                     |                                                                                                         | Bulk Pack            | TM2PB BULK  |
|  |  | 1/4" (6.35mmØ)<br>Stereo Phone plug,<br>Jaws cable clamp,<br>Thermoplastic back-shell,<br>Satin finish. | Standard             | TS3P        |
|                                                                                     |                                                                                     |                                                                                                         | Gold Plated Contacts | TS3P-AU     |
|                                                                                     |                                                                                     |                                                                                                         | Large Cable Clamp    | TS3PJ       |
|                                                                                     |                                                                                     |                                                                                                         | Bulk Pack            | TS3P BULK   |
|  |  | 1/4" (6.35mmØ)<br>Stereo Phone plug,<br>Jaws cable clamp,<br>Thermoplastic back-shell,<br>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<br>Gold Plated Contacts<br>Large Cable Clamp<br>Bulk Pack | TM2PN<br>TM2PN-AU<br>TM2PNJ<br>TM2PN BULK     |
|    |         | 1/4" (6.35mmø)<br>Mono Phone plug,<br>Jaws cable clamp,<br>Metal backshell,<br>Black finish.                                 | Standard<br>Gold Plated Contacts<br>Large Cable Clamp<br>Bulk Pack | TM2PBM<br>TM2PBM-AU<br>TM2PBMJ<br>TM2PBM BULK |
|    |         | 1/4" (6.35mmø)<br>Stereo Phone plug,<br>Jaws cable clamp,<br>Metal backshell,<br>Satin finish.                               | Standard<br>Gold Plated Contacts<br>Large Cable Clamp<br>Bulk Pack | TS3PN<br>TS3PN-AU<br>TS3PNJ<br>TS3PN BULK     |
|   |         | 1/4" (6.35mmø)<br>Stereo Phone plug,<br>Jaws cable clamp,<br>Metal backshell,<br>Black finish.                               | Standard<br>Gold Plated Contacts<br>Large Cable Clamp<br>Bulk Pack | TS3PBM<br>TS3PBM-AU<br>TS3PBMJ<br>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<br>Gold Plated Contacts<br>Small Cable Clamp<br>Bulk Pack | TM2RJ<br>TM2RJ-AU<br>TM2R<br>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<br>Gold Plated Contacts<br>Small Cable Clamp<br>Bulk Pack | TM2RBJ<br>TM2RBJ-AU<br>TM2RB<br>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<br>Gold Plated Contacts<br>Small Cable Clamp<br>Bulk Pack | TS3RJ<br>TS3RJ-AU<br>TS3R<br>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<br>Gold Plated Contacts<br>Small Cable Clamp<br>Bulk Pack | TS3RBJ<br>TS3RBJ-AU<br>TS3RB<br>TS3RBJ BULK   |

\*NOTE: Refer to page 100 for Jaws cable clamp specifications applicable to right angle connectors.

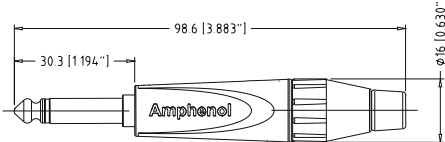
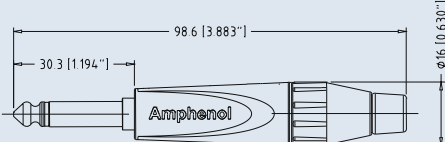
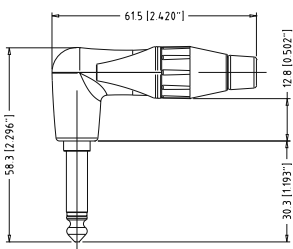
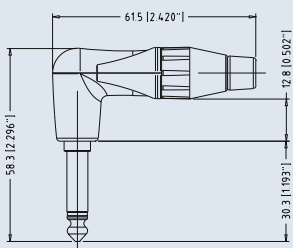


The Amphenol T series SwitchPlug uses a unique 360 degree precision sliding helical spring contact design to quietly and accurately switch the signal circuit safely to ground during instrument changes under load, thereby avoiding annoying thumps, pops and squeals. The sliding ring contact self-cleans 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 99**  
**Specifications: Page 100**

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             | TM1P         |
|                                                                                     |                                                                                     |                           |                                                                                                                           | Gold Plated Contacts | TM1P-AU      |
|                                                                                     |                                                                                     |                           |                                                                                                                           | Large Cable Clamp    | TM1PJ        |
|                                                                                     |                                                                                     |                           |                                                                                                                           | Bulk Pack            | TM1P BULK    |
|  |  |                           | 1/4" (6.35mmø)<br>Switch Phone plug,<br>Jaws cable clamp,<br>Thermoplastic<br>backshell,<br>Black finish                  | Standard             | TM1PB        |
|                                                                                     |                                                                                     |                           |                                                                                                                           | Gold Plated Contacts | TM1PB-AU     |
|                                                                                     |                                                                                     |                           |                                                                                                                           | Large Cable Clamp    | TM1PBJ       |
|                                                                                     |                                                                                     |                           |                                                                                                                           | Bulk Pack            | 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             | TM1RJ*       |
|                                                                                     |                                                                                     |                           |                                                                                                                           | Gold Plated Contacts | TM1RJ-AU*    |
|                                                                                     |                                                                                     |                           |                                                                                                                           | Bulk Pack            | 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             | TM1RBJ*      |
|                                                                                     |                                                                                     |                           |                                                                                                                           | Gold Plated Contacts | TM1RBJ-AU*   |
|                                                                                     |                                                                                     |                           |                                                                                                                           | Bulk Pack            | TM1RBJ BULK* |

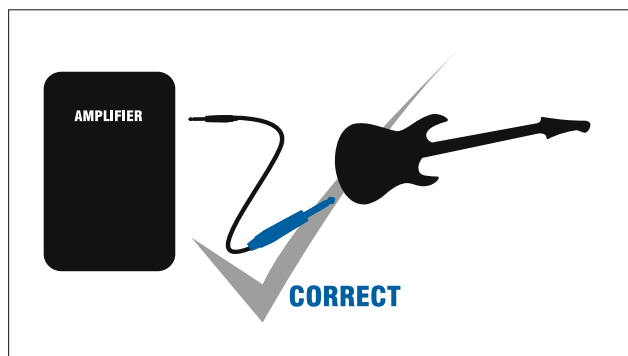
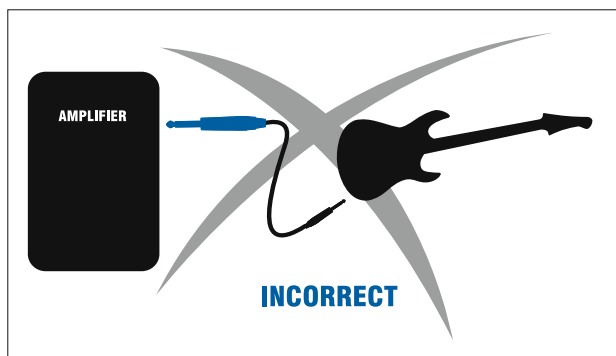
\*NOTE: Refer to page 98 for Jaws cable clamp specifications applicable to right angle connectors.

## SwitchPlug - User Instruction

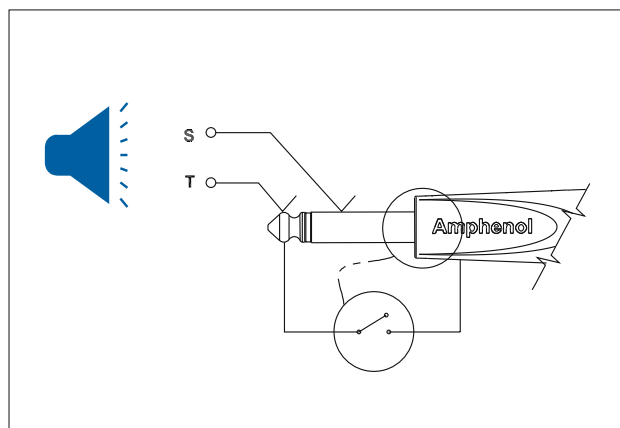
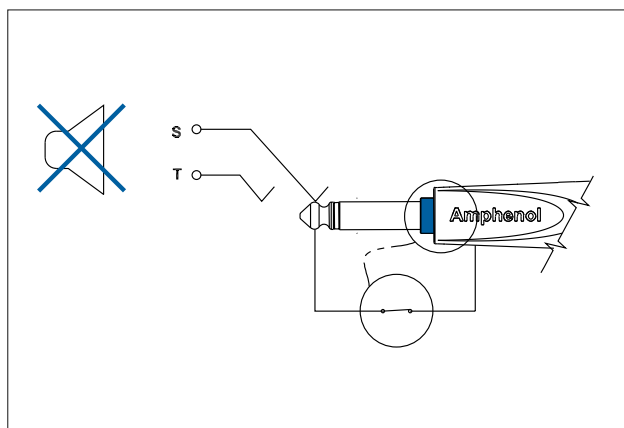


**CAUTION!**

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 100

| 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.

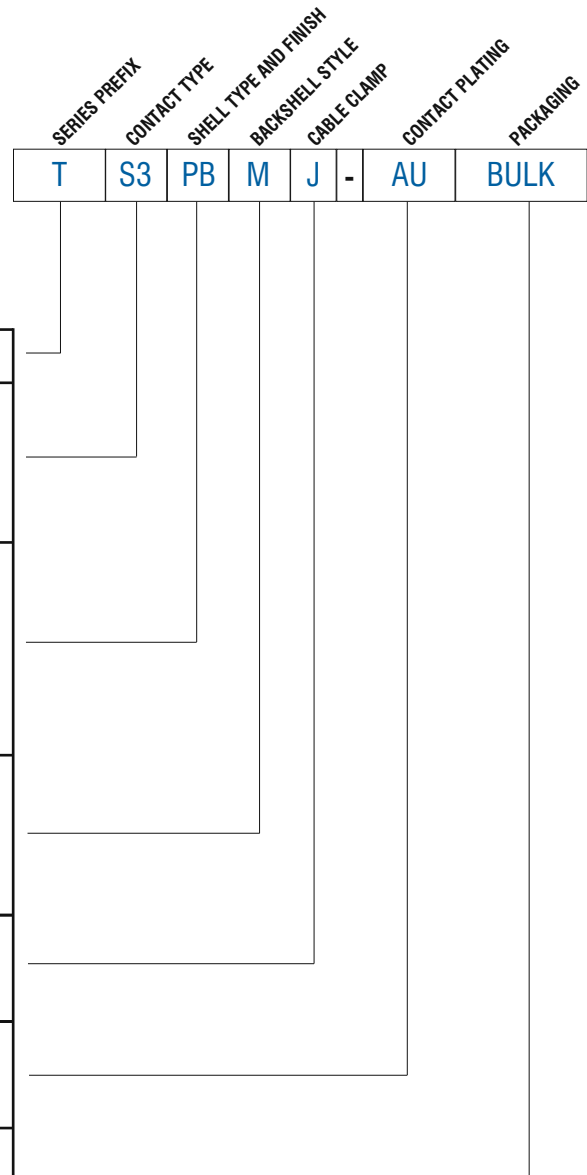
## PART NUMBER BREAKDOWN

### T-SERIES (PRO RANGE)

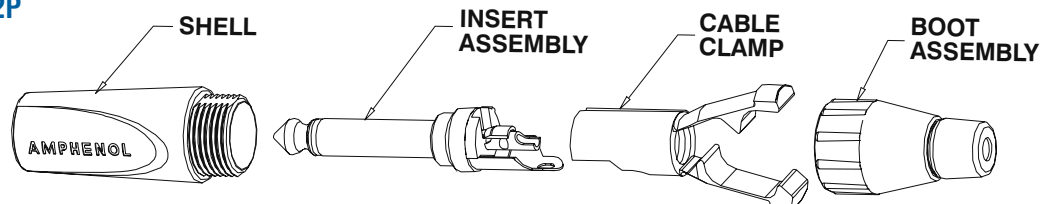
E. G. **TS3PBMJ-AU BULK**

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

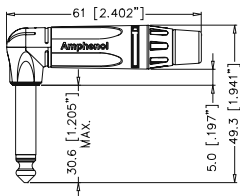
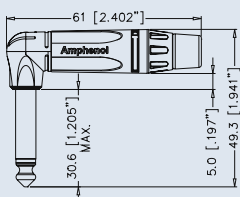
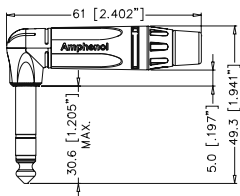
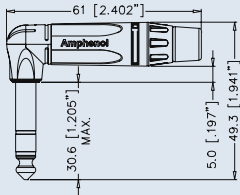
## Clamp Info:



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 114](#)

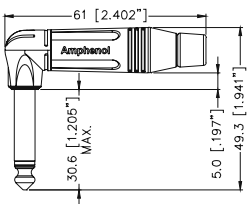
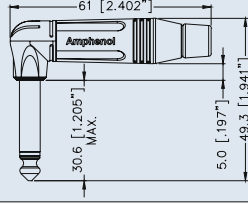
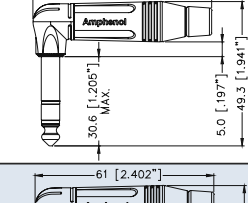
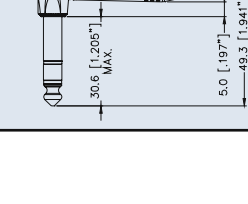
## Clamp Info:



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

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



| PRODUCT - FIGURE                                                                    | DRAWING                                                                             | DESCRIPTION                                                                                   | TYPE          | PART NUMBER  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------|--------------|
|    |    | 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 |



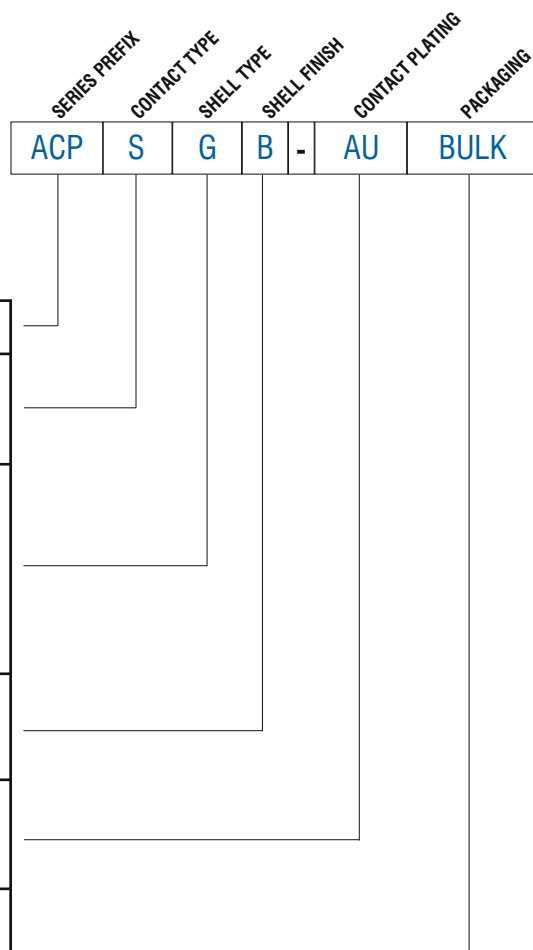
## PART NUMBER BREAKDOWN

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.

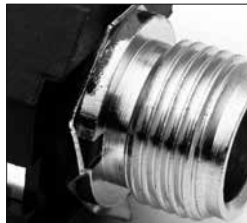
### Applications

- 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

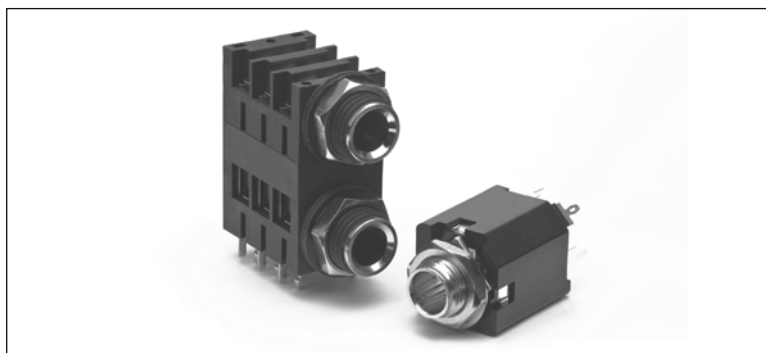
### Ordering Codes

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 112](#)

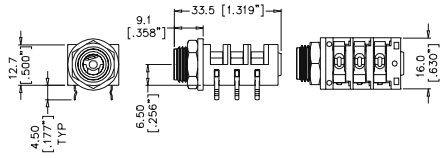
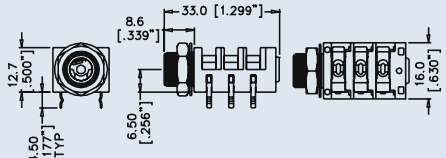
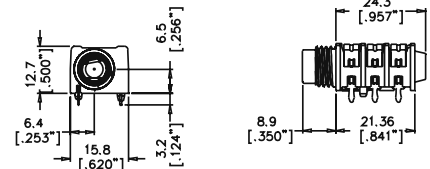
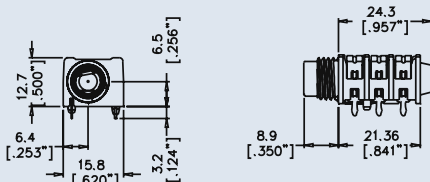
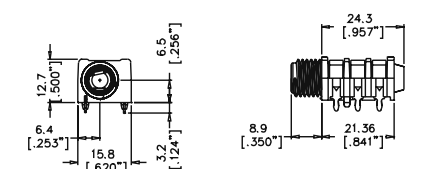
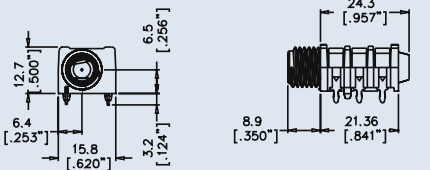
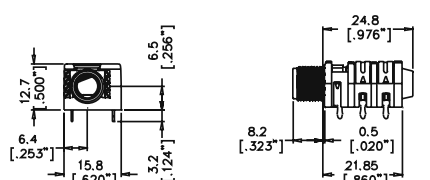
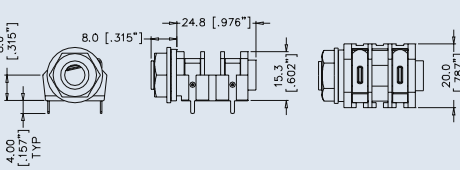
**Panel Cutouts:** [Page 111](#)

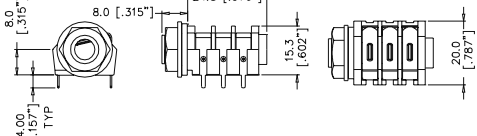
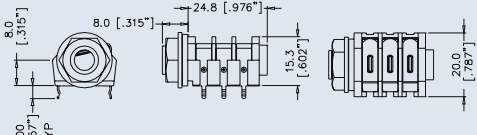
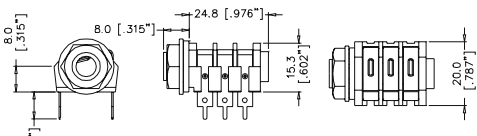
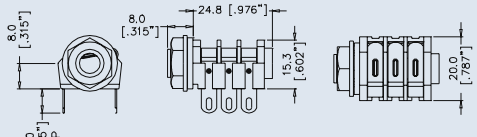
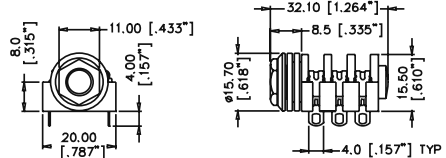
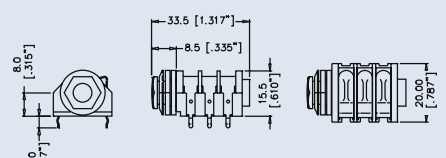
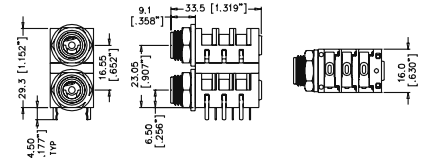
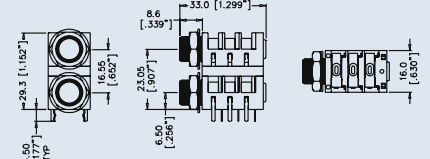
**PCB Footprints:** [Page 113](#)

**Specifications:** [Page 114](#)

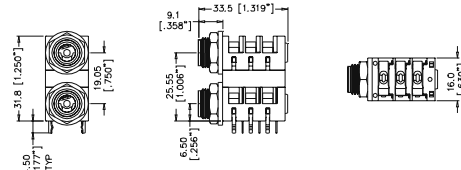
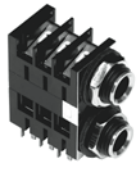
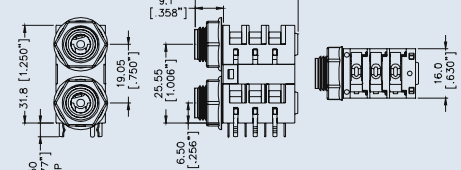
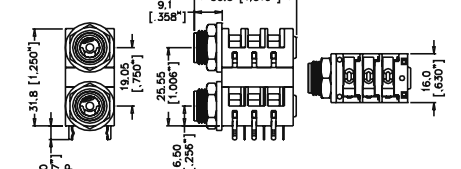
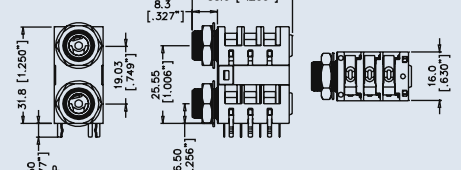
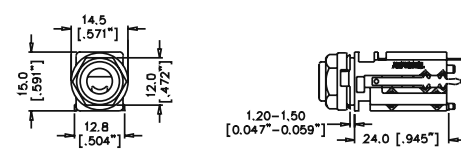
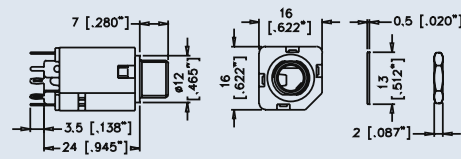
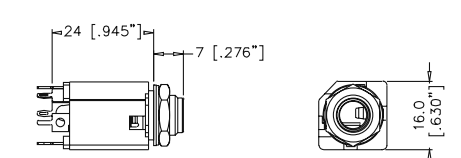
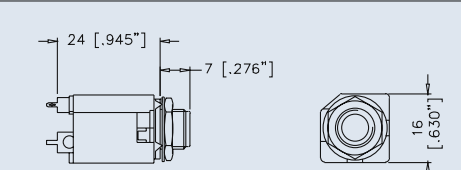
| PRODUCT - FIGURE                   | DRAWING | Dimensions in mm (inches) | DESCRIPTION                                                                                                                            | VARIATIONS                           | PART NUMBER                                                                         |
|------------------------------------|---------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------|
| <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 112 | 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 112 | 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 112 | 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                                                                           |

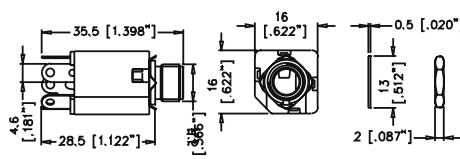


| PRODUCT - FIGURE                                                                    | DRAWING                                                                             | Dimensions in mm (inches) | DESCRIPTION                                                                                                                                             | 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 112 | 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 112 | 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   |

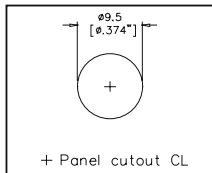
| PRODUCT - FIGURE                                                                    | DRAWING                                                                             | Dimensions in mm (inches) | DESCRIPTION                                                                                                                                   | 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     |
| 1/4" 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  |



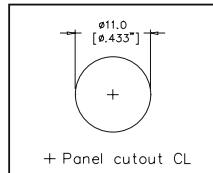
| PRODUCT - FIGURE                                                                    | DRAWING                                                                             | Dimensions in mm (inches) | DESCRIPTION                                                                                                                           | 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* |
| 1/4" PHONE JACKS VERTICAL                                                           |                                                                                     |                           | 1/4" (6.35mmØ) Jack, Vertical PCB mount, Plastic housing, nut and entry bore                                                          | Refer to Schematic Chart on page 112 | ACJM-PVB-2  |
|  |  | ACJM-PVB-2S               |                                                                                                                                       |                                      |             |
|                                                                                     |                                                                                     | ACJS-PVB-3                |                                                                                                                                       |                                      |             |
|                                                                                     |                                                                                     | ACJS-PVB-3S               |                                                                                                                                       |                                      |             |
|                                                                                     |                                                                                     | ACJS-PVB-5                |                                                                                                                                       |                                      |             |
|  |  |                           | 1/4" (6.35mmØ) Jack, Vertical PCB mount, Needle eye contacts, Plastic thread, Metal nut and insert                                    | Refer to Schematic Chart on page 112 | ACJM-MIV-2  |
|                                                                                     |                                                                                     |                           |                                                                                                                                       |                                      | ACJM-MIV-2S |
|                                                                                     |                                                                                     |                           |                                                                                                                                       |                                      | ACJS-MIV-3  |
|                                                                                     |                                                                                     |                           |                                                                                                                                       |                                      | ACJS-MIV-3S |
|                                                                                     |                                                                                     |                           |                                                                                                                                       |                                      | ACJS-MIV-5  |
|  |  |                           | 1/4" (6.35mmØ) Jack, Vertical PCB mount, Needle eye contacts, Star washer, Metal nut and insert                                       | Refer to Schematic Chart on page 112 | ACJM-MN-2   |
|                                                                                     |                                                                                     |                           |                                                                                                                                       |                                      | ACJS-MN-3   |
|                                                                                     |                                                                                     |                           |                                                                                                                                       |                                      | ACJM-MN-2S  |
|                                                                                     |                                                                                     |                           |                                                                                                                                       |                                      | ACJS-MN-3S  |
|                                                                                     |                                                                                     |                           |                                                                                                                                       |                                      | ACJS-MN-5   |
|  |  |                           | 1/4" (6.35mmØ) Jack, Vertical PCB mount, Metal nut and insert                                                                         | Refer to Schematic Chart on page 112 | 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 |

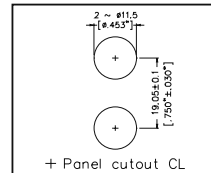
## PANEL CUTOUTS -FRONT VIEW



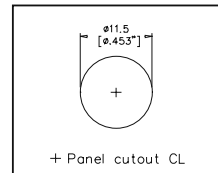
ACJM-MV  
ACJS-MV  
ACJM-MN-2  
ACJS-MN-3  
ACJM-MN-2S  
ACJS-MN-3S  
ACJM-MN-5  
ACJS-MN-5S  
ACJM-MIV  
ACJS-MIV  
ACJM-MVS  
ACJS-MVS



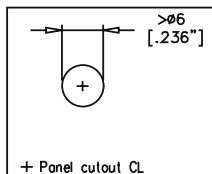
ACJM/S-PH  
ACJM/S-MH  
ACJM/S-PC  
ACJM/S-MC  
ACJM/S-PHR  
ACJM/S-MHR  
ACJM/S-PHS  
ACJM/S-MHS



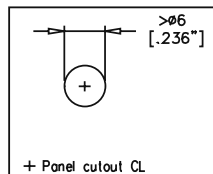
ACJM-MHD  
ACJS-MHD  
ACJM-MHDE  
ACJS-MHDE



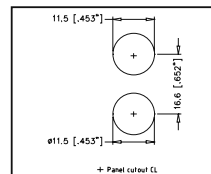
ACJM-MHDR  
ACJS-MHDR  
ACJS-HHDR



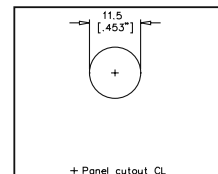
ACJM-NH35  
ACJS-NH35



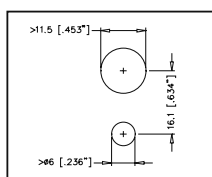
ACJM-NV35-2  
ACJM-NV35-2S  
ACJS-NV-35-3  
ACJS-NV-35-3S  
ACJS-NV-35-5  
ACJM-MV35-2  
ACJM-MV35-2S  
ACJS-MV-35-3  
ACJS-MV-35-3S  
ACJS-MV-35-5



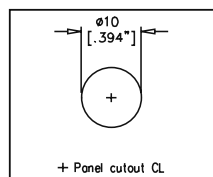
ACJS-MHDC  
ACJM-MHDC



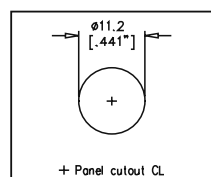
ACJS-IH  
ACJM-IH  
ACJS-IHS  
ACJM-IHS



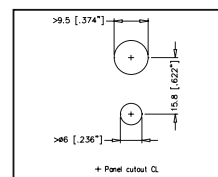
ACJM-MHD985  
ACJM-MHD985



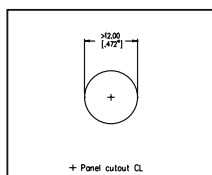
ACJS-MHOM  
ACJM-MHOM



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



ACJS-MVD985  
ACJM-MVD985



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



## SCHEMATIC CHART

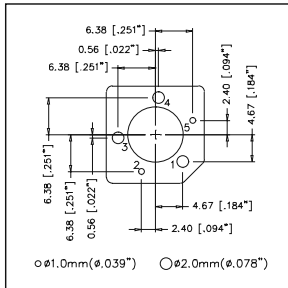
| PART NO.          | ACJM-MV35-2<br>ACJM-MN-2<br>ACJM-NV35-2<br>ACJM-PVB-2<br>ACJM-MV-2<br>ACJM-MVS-2<br>ACJM-MIV-2 | ACJM-MV35-2S<br>ACJM-MN-2S<br>ACJM-NV35-2S<br>ACJM-PVB-2S<br>ACJM-MV-2S<br>ACJM-MVS-2S<br>ACJM-MIV-2S | ACJS-MV35-3<br>ACJS-MN-3<br>ACJS-NV35-3<br>ACJS-PVB-3<br>ACJS-MV-3<br>ACJS-MVS-3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

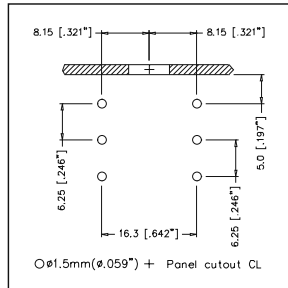
| PART NO.          | ACJM-HHOP-1<br>ACJM-PHOP-1<br>ACJM-MHOP-1 | ACJS-HHOP-1<br>ACJS-PHOP-1<br>ACJS-MHOP-1 | ACJM-HHOP<br>ACJM-PHOP<br>ACJM-MHOP | ACJS-HHOP<br>ACJS-PHOP<br>ACJS-MHOP |
|-------------------|-------------------------------------------|-------------------------------------------|-------------------------------------|-------------------------------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



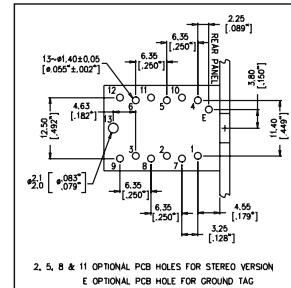
## PCB FOOTPRINT - CONNECTOR SIDE OF PCB



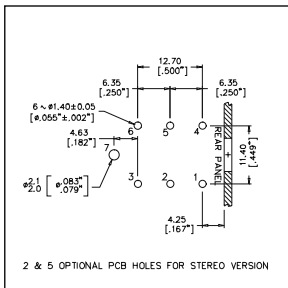
ACJM-MV  
ACJS-MV  
ACJM-MN-2  
ACJS-MN-3  
ACJM-MN-2S  
ACJS-MN-3S  
ACJM-MN-5  
ACJS-MN-5  
ACJM-NV35-XX  
ACJS-NV35-XX  
ACJM-MV35-XX  
ACJS-MV35-XX  
ACJM-MIV-2  
ACJS-MIV-2S  
ACJM-MIV-3  
ACJS-MIV-3S  
ACJM-MIV-5  
ACJS-MIV-5



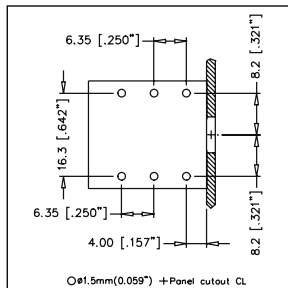
ACJM-PH  
ACJM-MH  
ACJS-PH  
ACJS-MH  
ACJM-MC  
ACJS-MC



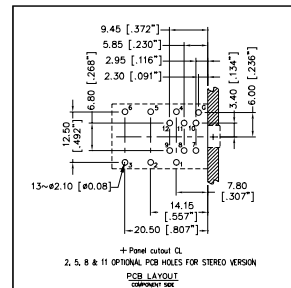
ACJM-MHD  
ACJS-MHD  
ACJM-MHDE  
ACJS-MHDE  
ACJM-MHDEM  
ACJS-MHDEM  
ACJM-MHDC  
ACJS-MHDC  
ACJM-MHDCM  
ACJS-MHDCM  
ACJM-MHDM  
ACJS-MHDM



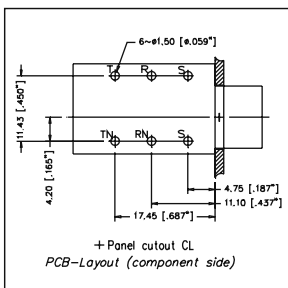
ACJM-MHDR  
ACJS-MHDR  
ACJM-PHR  
ACJS-PHR  
ACJM-MHR  
ACJS-MHR  
ACJM-HHDR  
ACJS-HHDR  
ACJM-MHDM  
ACJS-MHDM



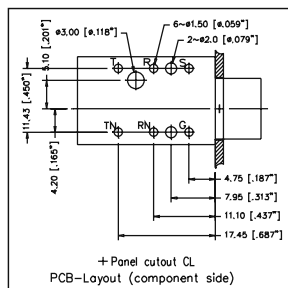
ACJS-IH  
ACJM-IH



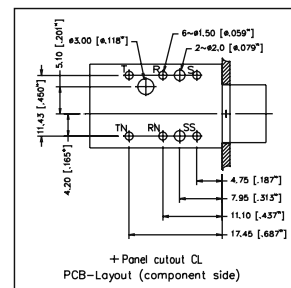
ACJS-MHD985  
ACJM-MHD985



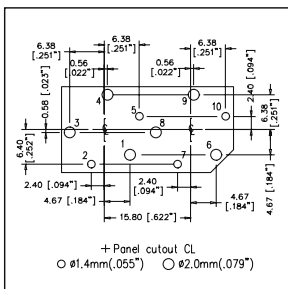
ACJS-MHOM  
ACJM-MHOM



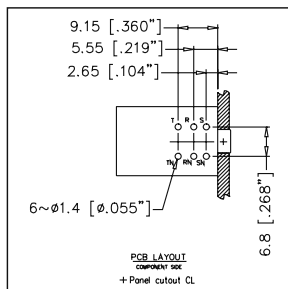
ACJS-MHOP-1  
ACJS-PHOP-1  
ACJS-HHOP-1  
ACJM-MHOP-1  
ACJM-PHOP-1  
ACJM-HHOP-1



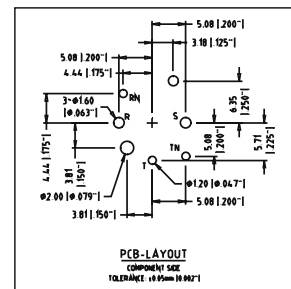
ACJS-MHOP  
ACJS-PHOP  
ACJM-MHOP  
ACJM-PHOP  
ACJM-HHOP  
ACJS-HHOP



ACJS-MVD985  
ACJM-MVD985



ACJS-NH35  
ACJM-NH35



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

## 1/4" PLUGS TECHNICAL DATA

|                                   |                                                         | VALUE                                                                                |
|-----------------------------------|---------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>GENERAL CHARACTERISTICS</b>    | Number of Contacts                                      | 2 Pole (Mono)<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)                                                                                                                                                          |

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



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