

Amphenol Australia



ENTERTAINMENT@AMPHENOL
TRUSTED GLOBALLY

ENTERTAINMENT INTERCONNECT CATALOGUE



Amphenol Australia Pty. Ltd.

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

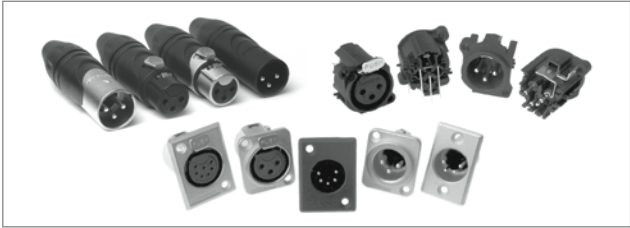
Amphenol's global presence allows us to take full advantage of our numerous corporate resources and product portfolio to provide you with a vast offering and choice. Our extensive range is designed to meet the specific needs of the entertainment markets to make the selection of your interconnect partner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

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

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

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

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XLR Connectors

AX Series XLR Cable Connectors



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

Features

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

Options

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

Ordering Codes

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

AX SERIES XLR CABLE CONNECTORS

Simple steps to guide you in using this catalogue

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

XLR Connectors

AX Series XLR Cable Connectors



Features:

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

Options:

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

Part Number Breakdown: Page 5

Specifications: Page 8


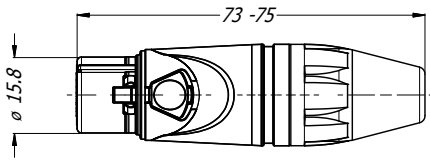

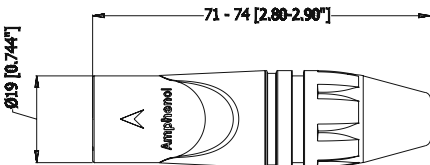

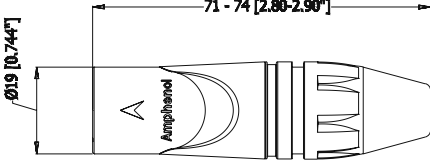

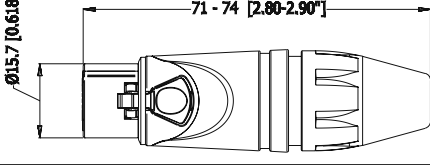

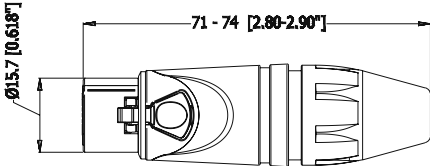

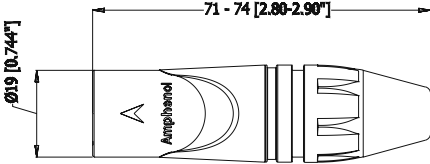

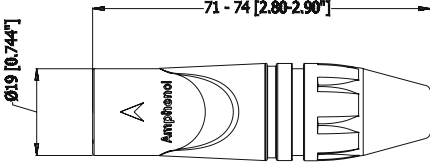

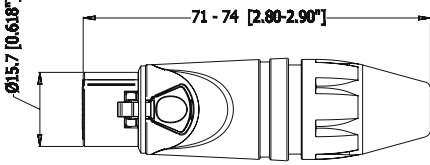

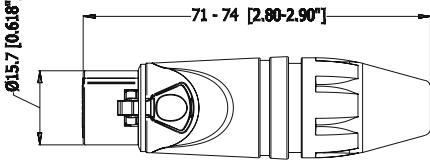

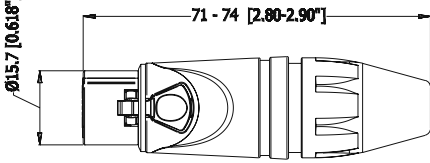

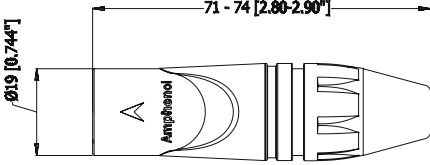

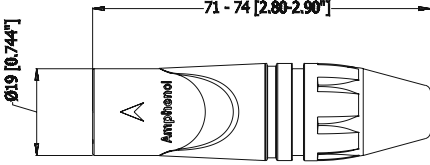

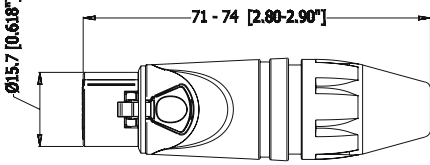

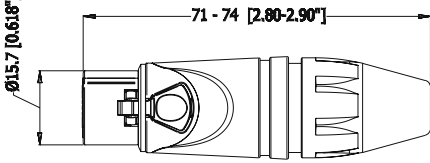

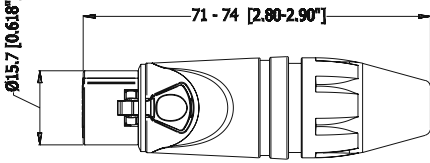

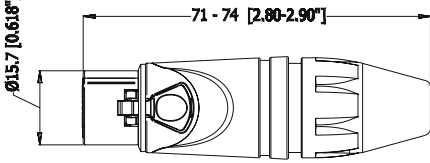

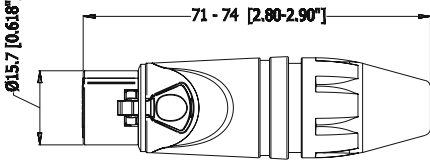

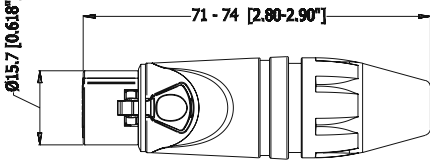
Assembly Instructions: Page 6 & 7

| PRODUCT - FIGURE | DRAWING | Dimensions in mm (inches) | DESCRIPTION | VARIATIONS | PART NUMBER |
|------------------|---------|---------------------------|--|----------------------|-------------|
| | | | XLR 3 pole male Machined contacts Nickel Finish | Standard | AX3M |
| | | | | Bulk Pack | AX3M BULK |
| | | | XLR 3 pole male Machined contacts Black Finish | Standard | AX3MB |
| | | | | Gold Plated Contacts | AX3MB-AU |
| | | | | Bulk Pack | AX3MB BULK |
| | | | XLR 3 pole female Stamped contacts Nickel Finish | Standard | AX3F |
| | | | | Bulk Pack | AX3F BULK |
| | | | XLR 3 pole female Stamped contacts Nickel Finish | Standard | AXX3F |
| | | | | | |
| | | | | | |
| | | | XLR 3 pole female Stamped contacts Black Finish | Standard | AX3FB |
| | | | | Gold Plated Contacts | AX3FB-AU |
| | | | | Bulk Pack | AX3FB BULK |

*PI538 is available for download at www.amphenolaudio.com

XLR Connectors

AX Series XLR Cable Connectors

| PRODUCT - FIGURE | DRAWING | Dimensions in mm (inches) | DESCRIPTION | VARIATIONS | PART NUMBER |
|---|---|--|---|----------------------|-------------|
|  |  | 73 - 75 ø 15.8 | XLR 3 pole female Stamped contacts Nickel Finish | Standard | AXX3FB |
|  |  | 71 - 74 [2.80-2.90"] ø19 [0.744"] | XLR 4 pole male Machined contacts Nickel Finish | Standard | AX4M |
|  |  | 71 - 74 [2.80-2.90"] ø19 [0.744"] | XLR 4 pole male Machined contacts Black Finish | Bulk Pack | AX4M BULK |
|  |  | 71 - 74 [2.80-2.90"] ø15.7 [0.618"] | XLR 4 pole female Machined contacts Nickel Finish | Standard | AX4F |
|  |  | 71 - 74 [2.80-2.90"] ø15.7 [0.618"] | XLR 4 pole female Machined contacts Black Finish | Bulk Pack | AX4F BULK |
|  |  | 71 - 74 [2.80-2.90"] ø19 [0.744"] | XLR 5 pole male Machined contacts Nickel Finish | Standard | AX4FB |
|  |  | 71 - 74 [2.80-2.90"] ø19 [0.744"] | XLR 5 pole male Machined contacts Black Finish | Gold Plated Contacts | AX4FB-AU |
|  |  | 71 - 74 [2.80-2.90"] ø15.7 [0.618"] | XLR 5 pole female Machined contacts Nickel Finish | Bulk Pack | AX4FB BULK |
|  |  | 71 - 74 [2.80-2.90"] ø15.7 [0.618"] | XLR 5 pole female Machined contacts Black Finish | Standard | AX5M |
|  |  | 71 - 74 [2.80-2.90"] ø15.7 [0.618"] | XLR 5 pole female Machined contacts Black Finish | Bulk Pack | AX5M BULK |
|  |  | 71 - 74 [2.80-2.90"] ø19 [0.744"] | XLR 5 pole male Machined contacts Black Finish | Standard | AX5MB |
|  |  | 71 - 74 [2.80-2.90"] ø19 [0.744"] | XLR 5 pole male Machined contacts Black Finish | Gold Plated Contacts | AX5MB-AU |
|  |  | 71 - 74 [2.80-2.90"] ø15.7 [0.618"] | XLR 5 pole female Machined contacts Nickel Finish | Bulk Pack | AX5MB BULK |
|  |  | 71 - 74 [2.80-2.90"] ø15.7 [0.618"] | XLR 5 pole female Machined contacts Nickel Finish | Standard | AX5F |
|  |  | 71 - 74 [2.80-2.90"] ø15.7 [0.618"] | XLR 5 pole female Machined contacts Nickel Finish | Bulk Pack | AX5F BULK |
|  |  | 71 - 74 [2.80-2.90"] ø15.7 [0.618"] | XLR 5 pole female Machined contacts Black Finish | Standard | AX5FB |
|  |  | 71 - 74 [2.80-2.90"] ø15.7 [0.618"] | XLR 5 pole female Machined contacts Black Finish | Gold Plated Contacts | AX5FB-AU |
|  |  | 71 - 74 [2.80-2.90"] ø15.7 [0.618"] | XLR 5 pole female Machined contacts Black Finish | Bulk Pack | AX5FB BULK |

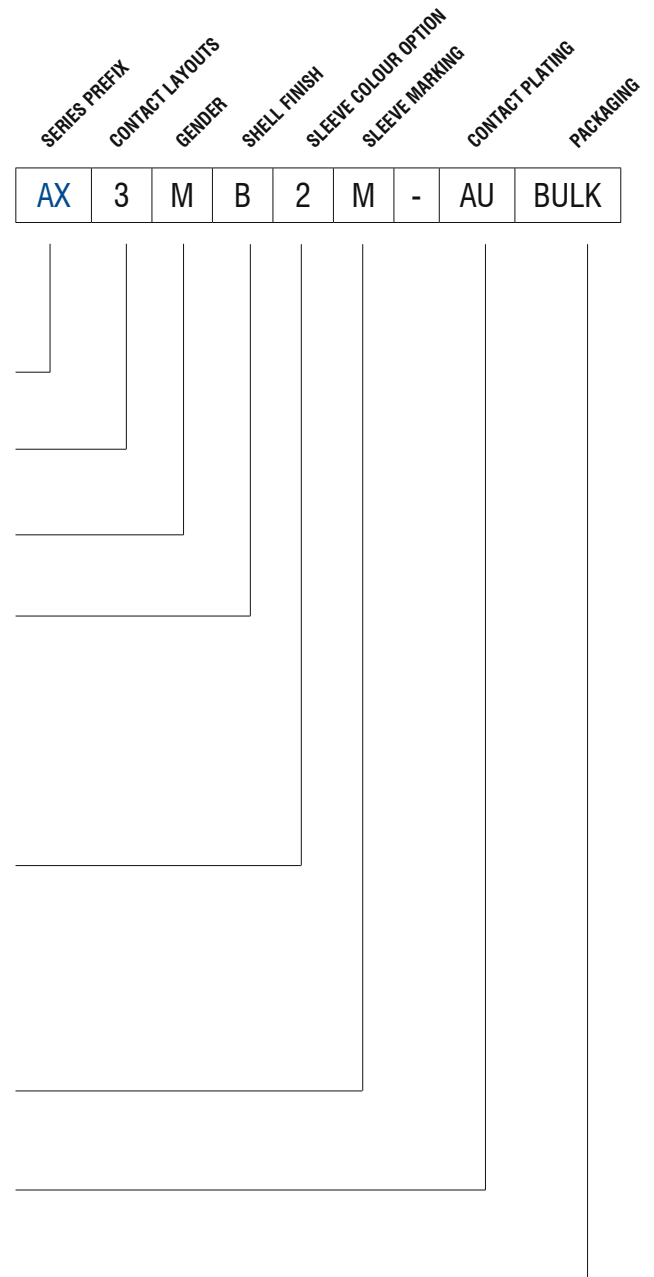
PART NUMBER BREAKDOWN

METAL SHELL TYPE - SOLDER

E. G. **AX3MB2M-AU BULK**

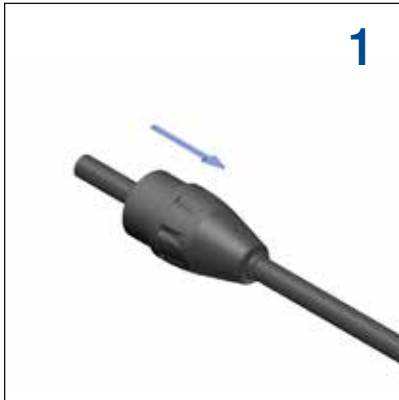
AX (Series Prefix), **3** contacts, **Male**, **Black** Finish,
2 (Red Sleeve) **M** (Sleeve Marking) - **AU** (Gold Plated Contacts), **Bulk** Packaged.

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

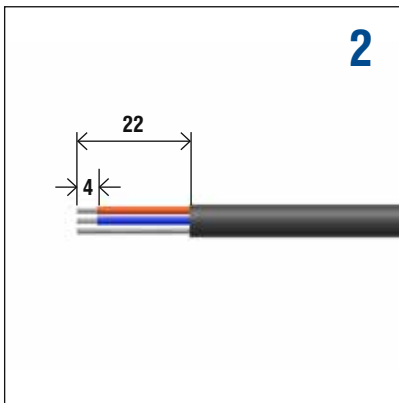


XLR Connectors

AX Series XLR Cable Connectors



Slide the nut (Backshell) onto the cable



Strip the cable



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



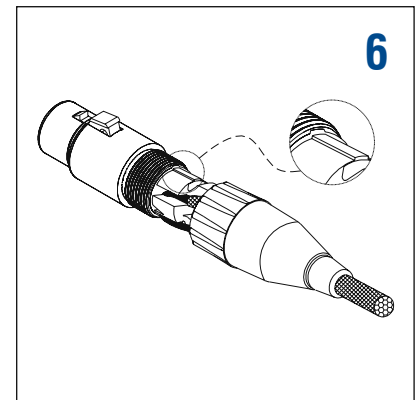
Install the cable clamp, flush to the insert making sure to align the top slot with the spring. Then push the insert & cable clamp together into the shell.



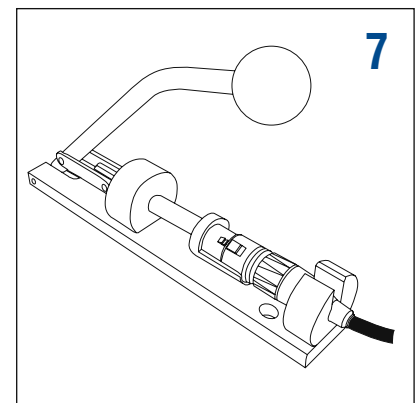
Thread the nut (Backshell) onto the shell (Torque 0.8Nm - 1.2Nm) to activate the cable clamp and close the connector assembly.

PI539 ASSEMBLY INSTRUCTIONS

AX SERIES FEMALE XLR CABLE CONNECTOR



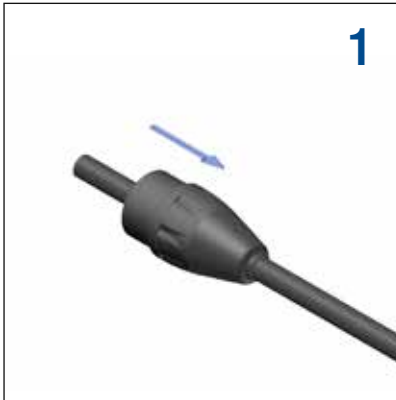
Close the cable clamp slightly and push the boot over the clamp ensuring the wires fit inside the boot.



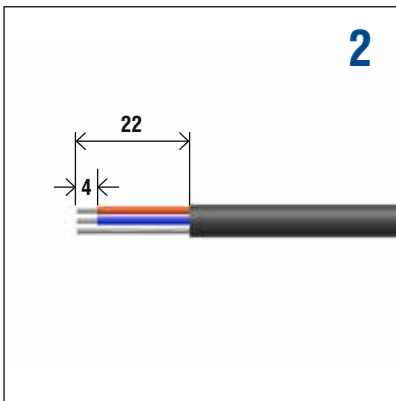
Final assembly can be achieved either by manually screwing the boot on, or by using an Amphenol Australia T2860 termination tool.

PI538 ASSEMBLY INSTRUCTIONS

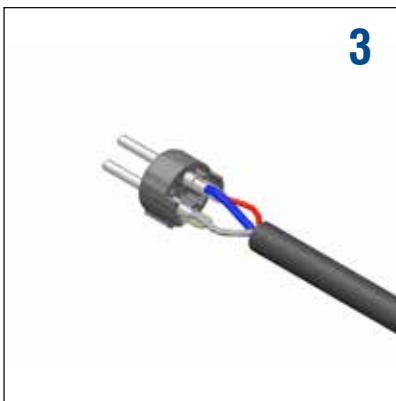
AX SERIES MALE XLR
CABLE CONNECTOR



Slide the nut (Backshell) onto the cable



Strip the cable



Solder the wires to the contacts.



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

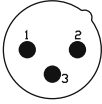

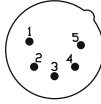


Align the key of the insert with the keyway on the shell then push the pin insert & cable clamp together in the shell.



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

STANDARD DATA AX SERIES CABLE CONNECTORS

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

¹⁾ Not suitable for domestic applications above 50V

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

AC SERIES XLR CABLE CONNECTORS



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

Features

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

Options

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

Jaws Cable Clamp Options



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



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

Ordering Codes

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- 4) Read the product description column for the products standard features.
- 5) Use variations column to determine your choice.
- 6) Identify part number.
- 7) In the event the particular option you require is not listed please refer to the part number breakdown page at the end of each section.
- 8) Please contact us directly if you have any further problems.

XLR Connectors

AC Series XLR Cable Connectors



Features:

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

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










Part Number Breakdown: Page 13

Specifications: Page 15

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









XLR Connectors

AC Series XLR Cable Connectors

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

XLR Connectors

AC Series XLR Cable Connectors

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

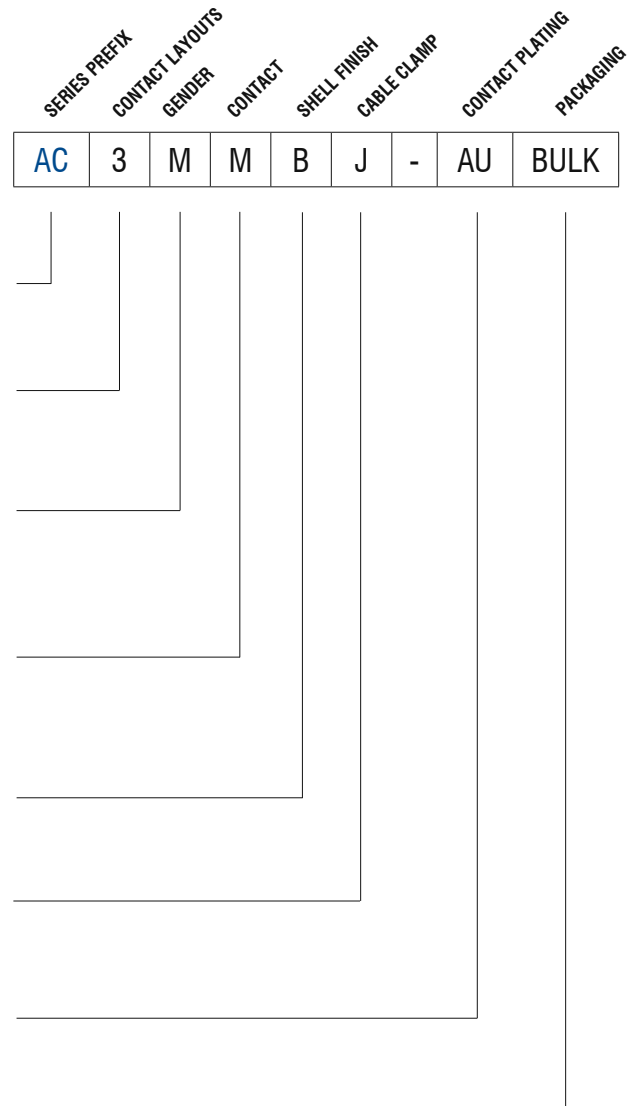
PART NUMBER BREAKDOWN

METAL SHELL TYPE - SOLDER

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

AC (Series Prefix), **3** contacts, **Male**, **M**achined Contacts, **B**lack Polyester Finish, **J** (Large Jaws), **- AU** (Gold Plated Contacts), **Bulk** Packaged.

| | | | |
|------------------------------------|-------|---|---|
| SERIES PREFIX | AC | = | Series Prefix |
| CONTACT LAYOUTS | 3 | = | 3 Contacts |
| | 4 | = | 4 Contacts |
| | 5 | = | 5 Contacts |
| | 6A | = | 6 Contacts |
| | 7 | = | 7 Contacts |
| GENDER | F | = | Female Socket Contacts |
| | M | = | Male Pin Contacts |
| CONTACT¹ | Blank | = | Stamped Contacts |
| | M | = | Machined Contacts |
| | G | = | Stamped Contacts, Ground Tag |
| | MG | = | Machined Contacts, Ground Tag (Applicable 3 male pin contacts, option M & MG only) |
| SHELL FINISH² | Blank | = | Nickel Plated Finish |
| | B | = | Black Polyester Finish |
| CABLE CLAMP | Blank | = | Standard Jaws 3mm - 6.5mm cable O.D. (0.118" to 0.255") |
| | J | = | Large Jaws 6.5mm - 8mm cable O.D. (0.255" to 0.314") |
| CONTACT PLATING³ | Blank | = | Standard Plating (Silver or Tin) (Refer to Standard Data) |
| | AU | = | Gold Plated |
| PACKAGING | Blank | = | Individual Bags |
| | BULK | = | Bulk Packed |



Note:

¹ 4 - 7 contact connectors have machined contacts and grounding as standard.

² Ground contacts are not supplied with the black polyester finish shell option.

³ 7 Contact is gold plated as standard.

⁴ All AC Series Connectors are available with optional colour coded boot / backshell. Refer to page 136 and simply add colour to end of part number. Example: AC3MM - RED

XLR Connectors

AC Series XLR Cable Connectors



Features:

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

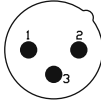
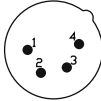
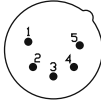
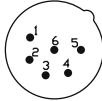
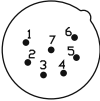
Options: Gold Plated Contacts, Stamped Contacts (3 Contact only), Bulk Pack, Coloured Boots / Backshells
3, 4, 5, 6A and 7 Contacts.

Specifications: Page 15

| PRODUCT - FIGURE | DRAWING | Dimensions in mm (inches) | DESCRIPTION | VARIATIONS | PART NUMBER |
|------------------|---------|---------------------------|---|------------|--------------|
| | | | XLR 3 pole male, Machined contacts, Thermoplastic shell, Jaws cable clamp | Standard | AC3MMCP |
| | | | | Bulk Pack | AC3MMCP BULK |
| | | | XLR 3 pole male, Stamped contacts, Thermoplastic shell, Jaws cable clamp | Standard | AC3MCP |
| | | | | Bulk Pack | AC3MCP BULK |
| | | | XLR 3 pole female, Stamped contacts, Thermoplastic shell, Jaws cable clamp | Standard | AC3FCP |
| | | | | Bulk Pack | AC3FCP BULK |

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

STANDARD DATA AC CABLE CONNECTORS

| | | | VALUE | | | | |
|---|---|---|---|---|---|---|---|
| GENERAL CHARACTERISTICS | Number of contacts | | 3 | 4 | 5 | 6A | 7 |
| | AC Series Contact Arrangements (Front view of pin inserts) | |  |  |  |  |  |
| | Termination | | SOLDER | | | | |
| | Max. Wire Gauge - Stranded wire: Solder | | 14AWG | 16AWG | 18AWG | | 20AWG |
| | Flammability rating (insulator plastics & housings) | | UL94V-0 | | | | |
| | Environmental | | Complies with EU RoHS 2 Directive 2011/65/EU | | | | |
| ELECTRICAL CHARACTERISTICS | Service Voltage RMS | | 133V ¹ | | | | |
| | Test Voltage AC RMS | | 1400V | | | | |
| | Current carrying capacity: Solder | | 15A | 10A | 7.5A | | 5A |
| | Typical Contact Resistance | | ≤3mΩ | | | | |
| | Insulation Resistance | | ≥1GΩ | | | | |
| CLIMATIC CHARACTERISTICS | Protection Class | | IP40 | | | | |
| | Operating Temperature | | -25 °C to +75 °C (-13°F to +167°F) | | | | |
| MECHANICAL CHARACTERISTICS | Insertion and Withdrawal force | | ≥10N - ≤30N | | | | |
| | Weight - Metal ² | | 36g (0.080lb) | 37g (0.081lb) | 38g (0.083lb) | | |
| | Weight - Thermoplastic ² | | 18g (0.039lb) | 19g (0.041lb) | 20g (0.044lb) | | |
| | Typical Cable retention force | | 22Kg to 44Kg (50lb to 100lb) - Dependent on cable material and diameter. | | | | |
| | Cable O.D. range - JAWS clamp | Standard Large | 3mm to 6.5mm (0.118" to 0.255") 6.5mm to 8mm (0.255" to 0.314") | | | | |
| | Mechanical Operations | | 1000 mating cycles | | | | |
| | MATERIALS | Connector shell - Metal Shell finish | | Diecast Zinc Alloy Satin nickel or Black polyester | | | |
| Connector shell - Thermoplastic Shell finish | | Thermoplastic, UL94V-0 Modified PPE Resin Black | | | | | |
| Insulators | | UL94V-0 PBT Resin or Modified PPE Resin | | | | | |
| Boot / Backshell Finish | | UL94V-0 Modified PPE Resin or Machined Brass Black, other colours available - see page 136 | | | | | |
| Cable clamp (JAWS) | | Standard Solder Large Solder | UL94V-0 Modified PPO Resin (Black) UL94V-0 Modified PPO Resin (Purple) | | | | |
| Cable Bushing | | Santoprene | | | | | |
| Male Contact (Solder / Plating) | | Stamped Machined | Phosphor Bronze / Silver or Gold (Optional) Brass / Silver or Gold (Optional) | | | | |
| Female Contact (Solder / Plating) | | Stamped Machined | Phosphor Bronze / Tin or Gold (Optional) Brass / Silver or Gold (Optional) | | | | |

¹⁾ Not suitable for domestic applications above 50V

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

XLR Connectors

AC/AX Series XLR Metal Chassis Mount Connectors



AC/AX SERIES XLR METAL CHASSIS MOUNT CONNECTORS

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

Features

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

Options

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

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

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

Ordering Codes

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

Simple steps to guide you in using this catalogue

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

XLR Connectors

AC/AX Series XLR Metal Chassis Mount Connectors



Features:

- Zinc Diecast Shell.
- D size housing can be front or rear mounted using the same panel cutout.
- Solder Bucket connections.
- Vertical PCB mounting.
- Precision machined or Stamped contacts (3 pin only).
- Leading first mate last break socket contact.
- Positive latch lock system.
- M3 threaded holes (Optional).

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


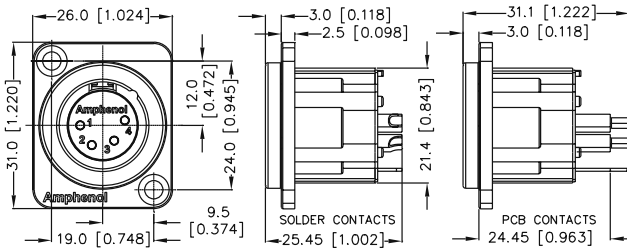


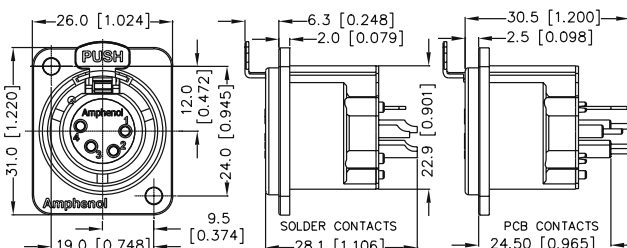


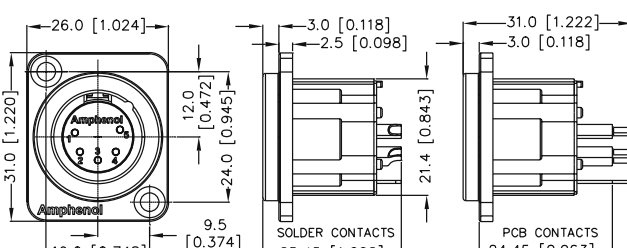

Part Number Breakdown: [Page 20](#)


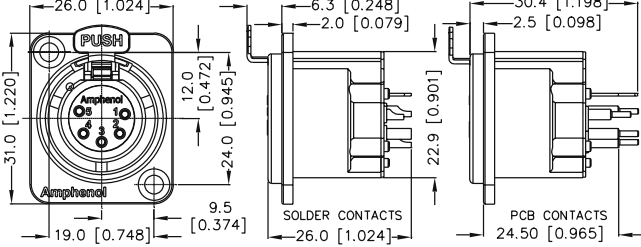


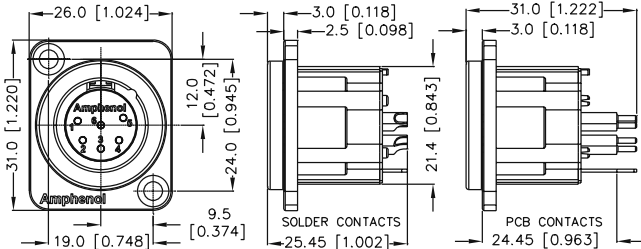


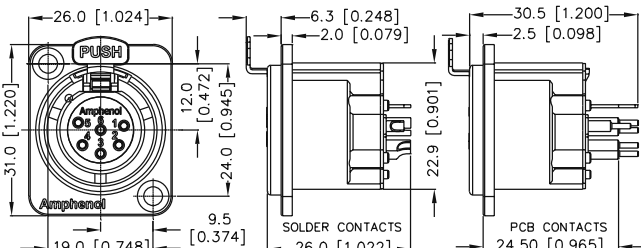

Specifications: [Page 26](#)

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

XLR Connectors

AC/AX Series XLR Metal Chassis Mount Connectors

| PRODUCT | DRAWING Dimensions in mm (inches) | DESCRIPTION | VARIATIONS | PART NO. |
|---|---|--|----------------------|---------------------------|
|  |  | XLR 4 pole male, D Flange, Machined contacts, Nickel Finish | Standard | AX4MD |
| | | | M3 Threaded Holes | AX4MD-M3 |
| | | | Vertical PCB | AX4MDV |
| | | | M3 Threaded Holes | AX4MDV-M3 |
|  | | XLR 4 pole male, D Flange, Machined contacts, Black Finish | Standard | AX4MDB |
| | | | Gold Plated Contacts | AX4MDB-AU |
| | | | Vertical PCB | AX4MDVB |
|  |  | XLR 4 pole female, D Flange, Machined contacts, Nickel Finish | Standard | AX4FD |
| | | | M3 Threaded Holes | AX4FD-M3 |
| | | | Vertical PCB | AX4FDV |
| | | | M3 Threaded Holes | AX4FDV-M3 |
|  | | XLR 4 pole female, D Flange, Machined contacts, Black Finish | Standard | AX4FDB |
| | | | Gold Plated Contacts | AX4FDB-AU |
| | | | Vertical PCB | AX4FDVB |
|  |  | XLR 5 pole male, D Flange, Machined contacts, Nickel Finish | Standard | AX5MD |
| | | | M3 Threaded Holes | AX5MD-M3 |
| | | | Vertical PCB | AX5MDV |
| | | | M3 Threaded Holes | AX5MDV-M3 |
|  | | XLR 5 pole male, D Flange, Machined contacts, Black Finish | Standard | AX5MDB |
| | | | Gold Plated Contacts | AX5MDB-AU |
| | | | Vertical PCB | AX5MDVB |

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

XLR Connectors

AC/AX Series XLR Metal Chassis Mount Connectors

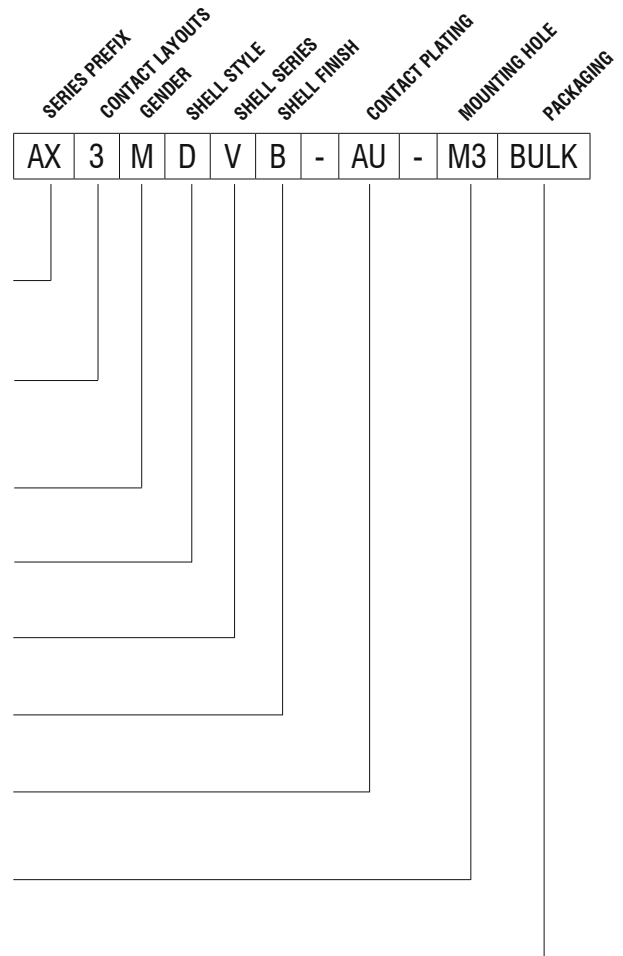
PART NUMBER BREAKDOWN

METAL TYPE FLANGE

E. G. **AX3MDVB-AU-M3 BULK**

AX (Series Prefix), **3** contacts, **Male**, **D** Small Flange, **Vertical** PCB Contact, **Black** Polyester Finish, - **AU** (Gold Plated Contacts), - **M3** Mounted Holes, **BULK** Packaged.

| | | | |
|------------------------------------|-------|---|--|
| SERIES PREFIX | AX | = | Series Prefix |
| CONTACT LAYOUTS | 3 | = | 3 Contacts |
| | 4 | = | 4 Contacts |
| | 5 | = | 5 Contacts |
| | 6A | = | 6 Contacts |
| GENDER | F | = | Female Socket Contacts |
| | M | = | Male Pin Contacts |
| SHELL STYLE | D | = | Small Flange (front or rear mounting) |
| SHELL SERIES | Blank | = | Solder Bucket |
| | V | = | Vertical PCB Contact |
| SHELL FINISH¹ | Blank | = | Nickel Plated Finish |
| | B | = | Black Polyester Finish |
| CONTACT PLATING² | Blank | = | Standard Plating |
| | AU | = | Gold Plated |
| MOUNTING HOLES | Blank | = | Through Holes |
| | M3 | = | M3 Threaded Holes |
| PACKAGING | Blank | = | Individual Bags |
| | BULK | = | Bulk Packed |



Note:

¹ Ground contacts are not supplied with the black polyester finish shell option.

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

XLR Connectors

AC/AX Series XLR Metal Chassis Mount Connectors



Features:

- Zinc Diecast Shell.
- D size housing can be front or rear mounted using the same panel cutout.
- Solder Bucket connections.
- Precision machined or Stamped contacts (3 pin only).
- Leading first mate last break socket contact.
- Positive latch lock system.

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

Part Number Breakdown: [Page 25](#)

Specifications: [Page 26](#)


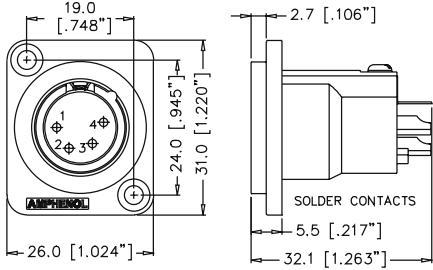

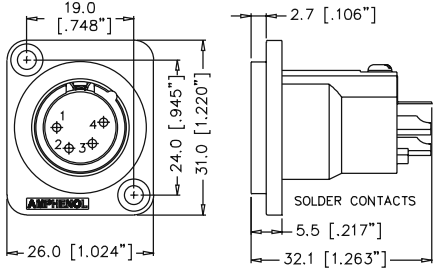

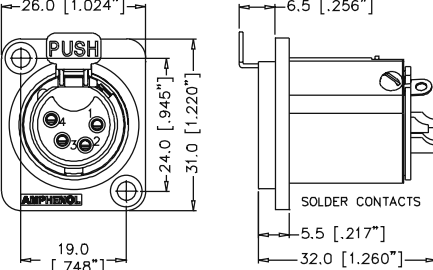

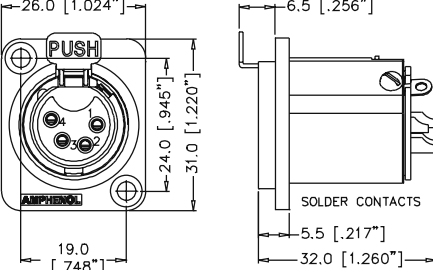

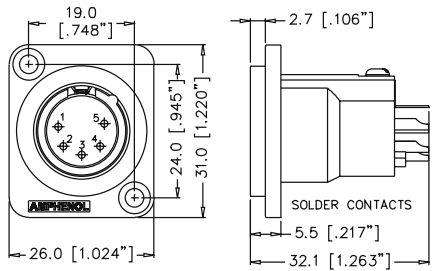

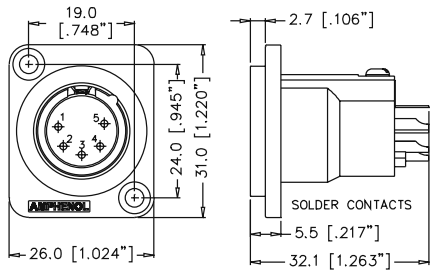

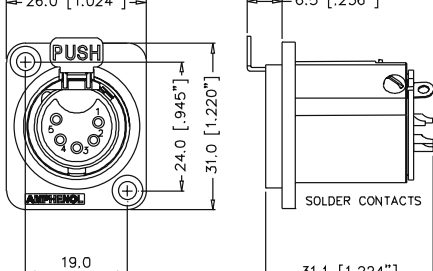

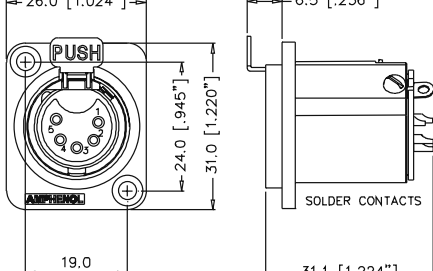
PCB Footprints: [Page 27](#)


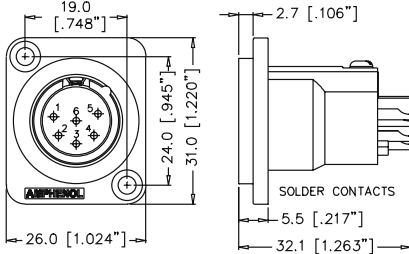

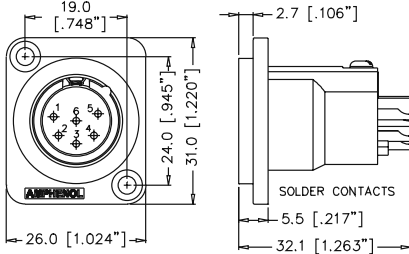

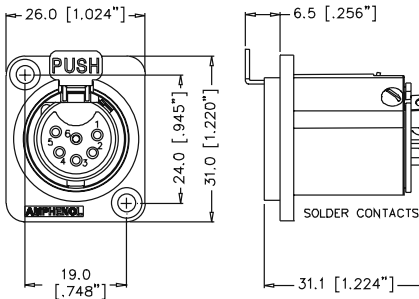

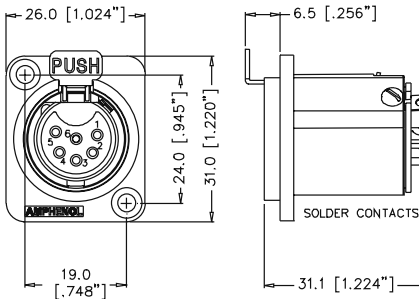

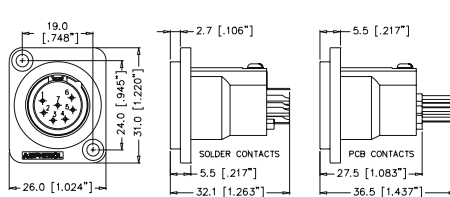

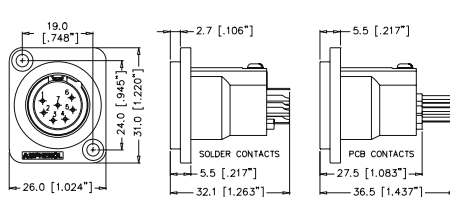

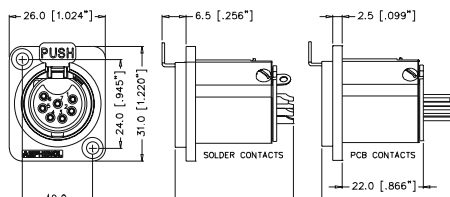

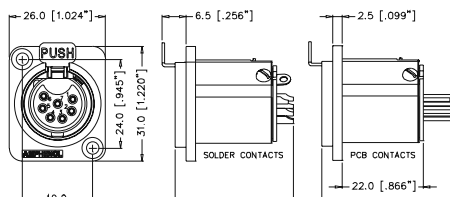
Panel Cutouts: [Page 27](#)

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

XLR Connectors

AC/AX Series XLR Metal Chassis Mount Connectors

| PRODUCT - FIGURE | DRAWING | Dimensions in mm (inches) | DESCRIPTION | VARIATIONS | PART NUMBER |
|---|---|---------------------------|--|----------------------|-----------------------------|
|  |  | | XLR 4 pole male, D Flange, Machined contacts, Nickel Finish | Standard | AC4MDZ |
| | | | | Bulk Pack | AC4MDZ BULK |
|  |  | | XLR 4 pole male, D Flange, Machined contacts, Black Finish | Standard | AC4MDZB |
| | | | | Gold Plated Contacts | AC4MDZB-AU |
|  |  | | XLR 4 pole female, D Flange, Machined contacts, Nickel Finish | Standard | AC4FDZ |
| | | | | Bulk Pack | AC4FDZ BULK |
|  |  | | XLR 4 pole female, D Flange, Machined contacts, Black Finish | Standard | AC4FDZB |
| | | | | Gold Plated Contacts | AC4FDZB-AU |
|  |  | | XLR 5 pole male, D Flange, Machined contacts, Nickel Finish | Standard | AC5MDZ |
| | | | | Bulk Pack | AC5MDZ BULK |
|  |  | | XLR 5 pole male, D Flange, Machined contacts, Black Finish | Standard | AC5MDZB |
| | | | | Gold Plated Contacts | AC5MDZB-AU |
|  |  | | XLR 5 pole female, D Flange, Machined contacts, Nickel Finish | Standard | AC5FDZ |
| | | | | Bulk Pack | AC5FDZ BULK |
|  |  | | XLR 5 pole female, D Flange, Machined contacts, Black Finish | Standard | AC5FDZB |
| | | | | Gold Plated Contacts | AC5FDZB-AU |

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

XLR Connectors

AC/AX Series XLR Metal Chassis Mount Connectors



Features:

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

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

Part Number Breakdown: [Page 20](#) **Specifications:** [Page 26](#)
PCB Footprints: [Page 27](#) **Panel Cutouts:** [Page 27](#)

| PRODUCT - FIGURE | DRAWING | Dimensions in mm (inches) | DESCRIPTION | POLES | PART NUMBER |
|------------------|---------|--|--|-------|--------------------------|
| | | 2.4 [.094"] 27.0 [1.063"] 36.8 [1.449"] 22.2 [.874"] 32.1 [1.265"] | XLR male, Narrow flange, Machined contacts | 3 | AC3MMPNZ |
| | | 2.4 [.094"] 27.0 [1.063"] 36.8 [1.449"] 22.2 [.874"] 32.1 [1.265"] | XLR male, Narrow flange, Stamped contacts, | 3 | AC3MPNZ |
| | | | | 4 | AC4MPNZ |
| | | | | 5 | AC5MPNZ |
| | | | | 6 | AC6AMPNZ |
| | | | | 7 | AC7MPNZ |
| | | 27.2 [1.070"] 2.4 [.094"] 26.4 [1.039"] 36.7 [1.445"] 16.7 [.656"] 31.5 [1.238"] | XLR male, Wide flange, Machined contacts | 3 | AC3MMP |
| | | 27.2 [1.070"] 2.4 [.094"] 26.4 [1.039"] 36.7 [1.445"] 16.7 [.656"] 32.5 [1.278"] | XLR male, Wide flange, Stamped contacts | 3 | AC3MP |
| | | | | 4 | AC4MP |
| | | | | 5 | AC5MP |
| | | | | 6 | AC6AMP |
| | | | | 7 | AC7MP |
| | | 27.2 [1.070"] 3.5 [.138"] 26.4 [1.039"] 36.7 [1.445"] 16.7 [.656"] 2.5 [.098"] 31.0 [1.220"] | XLR female, Wide flange, Stamped contacts | 3 | AC3FPZ |
| | | | | 4 | AC4FPZ |
| | | | | 5 | AC5FPZ |
| | | | | 6 | AC6AFPZ |
| | | | | 7 | AC7FPZ |

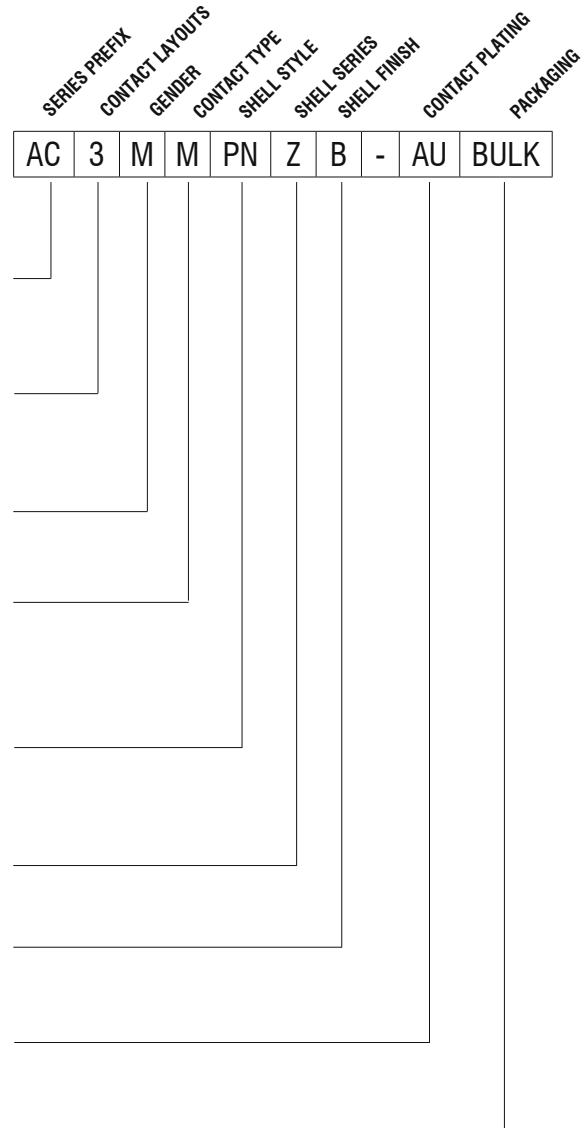
*Black finish available on special request please contact factory.

PART NUMBER BREAKDOWN

METAL TYPE FLANGE

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

| | | | |
|--------------------------------------|-------|---|--|
| SERIES PREFIX | AC | = | Series Prefix |
| CONTACT LAYOUTS | 3 | = | 3 Contacts |
| | 4 | = | 4 Contacts |
| | 5 | = | 5 Contacts |
| | 6A | = | 6 Contacts |
| | 7 | = | 7 Contacts |
| GENDER | F | = | Female Socket Contacts |
| | M | = | Male Pin Contacts |
| MACHINED CONTACTS¹ | Blank | = | Stamped Contacts |
| | M | = | Machined Contacts (Applicable 3 male pin contacts only) |
| SHELL STYLE | D | = | Small Flange (front or rear mounting) |
| | P | = | Large Shell with Wide Flange |
| | PN | = | Large Shell with Narrow Flange (male only) |
| SHELL SERIES | Blank | = | Male P Shell Style Only |
| | Z | = | Metal Chassis Series |
| SHELL FINISH² | Blank | = | Nickel Plated Finish |
| | B | = | Black Polyester Finish |
| CONTACT PLATING³ | Blank | = | Standard Plating (Silver or Tin - refer to Standard Data) |
| | AU | = | Gold Plated |
| PACKAGING | Blank | = | Individual Bags |
| | BULK | = | Bulk Packed |



Note:

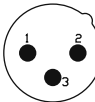
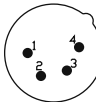
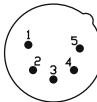
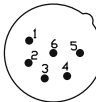
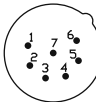
¹ 4 - 7 contact connectors have machined contacts and grounding as standard. They are not available in stamped contacts.

² Ground contacts are not supplied with the black polyester finish shell option.

³ 7 Contact is gold plated as standard.

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

STANDARD DATA AC / AX SERIES CHASSIS - METAL “Z”

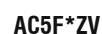
| | | VALUE | | | | |
|----------------------------|--|---|---|---|---|---|
| GENERAL CHARACTERISTICS | Number of contacts | 3 | 4 | 5 | 6A | 7 |
| | Contact Arrangement (Front view of pin inserts) |  |  |  |  |  |
| | Termination | Solder Bucket / Printed Circuit Board (PCB) | | | | |
| | Max. Wire Gauge - Stranded wire: | | | | | |
| | Solder | 14AWG | 16AWG | 18AWG | 18AWG | 20AWG |
| | Printed Circuit Board - PCB | N/A | N/A | N/A | N/A | N/A |
| ELECTRICAL CHARACTERISTICS | Flammability rating of plastics | UL94V-0 | | | | |
| | Environmental | Complies with EU RoHS 2 Directive 2011/65/EU | | | | |
| | Service Voltage RMS | 133V ¹⁾ | | | | |
| | Test Voltage AC RMS | 1400V | | | | |
| | Current carrying capacity: | | | | | |
| | Solder | 15A | 10A | 7.5A | 7.5A | 5A |
| CLIMATIC CHARACTERISTICS | Printed Circuit Board (PCB) | 15A | 10A | 7.5A | 7.5A | 5A |
| | Typical Contact Resistance | ≤3mΩ | | | | |
| | Insulation Resistance | ≥1000MΩ | | | | |
| MECHANICAL CHARACTERISTICS | Protection Class | IP40 | | | | |
| | Operating Temperature | -25°C to +75°C (-13°F to +167°F) | | | | |
| MATERIALS | Weight - Metal ²⁾ | 31g (0.068lb) | 32g (0.070lb) | 33g (0.072lb) | 33g (0.072lb) | 33g (0.072lb) |
| | Mechanical Operations | 1000 mating cycles | | | | |
| MATERIALS | Connector Shell | Diecast Zinc Alloy | | | | |
| | Shell Finish | Satin Nickel or Black Polyester | | | | |
| | Insulators | PA66 30% Glass Filled Resin | | | | |
| | Male Contact | | | | | |
| | Stamped Solder and PCB-(Material/Plating) | Phosphor Bronze / Silver or Gold (optional) | | | | |
| | Machined Solder-(Material/Plating) | Brass / Silver or Gold (optional) | | | | |
| | Female Contact | | | | | |
| | Stamped Solder and PCB-(Material/Plating) | Phosphor Bronze / Tin or Gold (optional) | | | | |
| | Machined Solder-(Material/Plating) | Brass / Silver or Gold (Optional) | | | | |

¹⁾ Not suitable for domestic applications above 50V

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

PCB FOOTPRINTS STRAIGHT (V) CONNECTOR SIDE OF PCB

○ ø1.2mm(.05") + Panel Cutout CL



AC*FDZ / AX*FD



XLR Connectors

AC Series XLR PCB Chassis Mount Connectors



AC SERIES XLR PCB CHASSIS MOUNT CONNECTORS

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

Features

- A leading first mate last break socket contact is standard on all female connectors (Pin 1).
- Vertical and Horizontal PCB versions available.
- Latching and Non-latching versions available.
- A range of different grounding options are available including:
 - Mating connector shell to Pin 1
 - Mating connector shell to Chassis
 - Mating connector shell to pin 1 to Chassis
- A type is available in 3, 4 or 5 contacts.
- B type is available in 3 contact only.
- Compatible with all other XLR brands.
- Metal Mounting Flange (B type)

Options

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

Ordering Codes

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

Simple steps to guide you in using this catalogue

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



A TYPE

Features:

- Thermoplastic Shell
- Contact layouts in 3,4 or 5
- Industry standard PCB footprints.
- Vertical or Horizontal PCB mounting.
- Precision machined pin contacts.
- Gold plated contacts.
- Leading first mate last break socket contact.
- Bulk packed in trays, 100 to a box as standard.
- Positive latch lock system.

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

Part Number Breakdown: [Page 36](#) **Specifications:** [Page 39](#)

PCB Footprints: [Page 40](#)


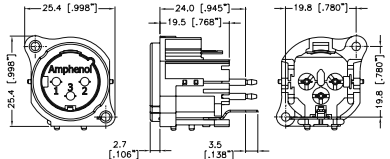

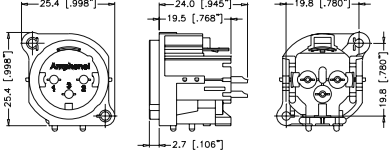

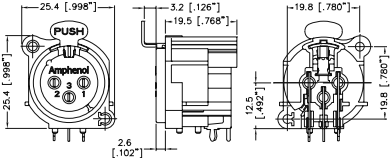

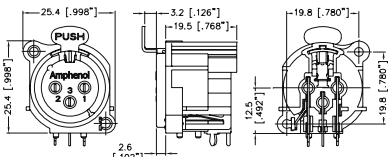

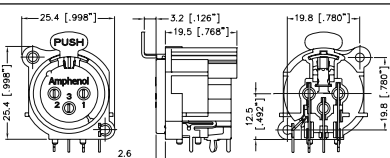

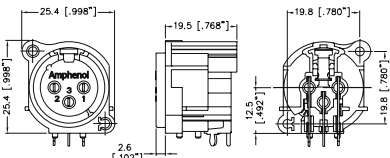

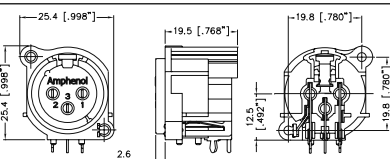

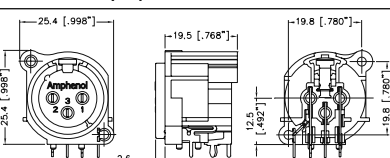

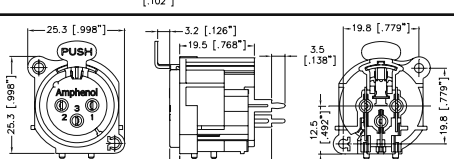

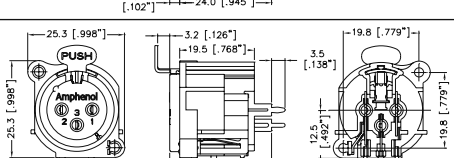
Panel Cutouts: [Page 41](#)


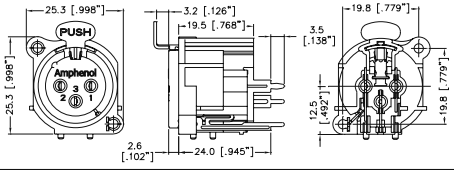

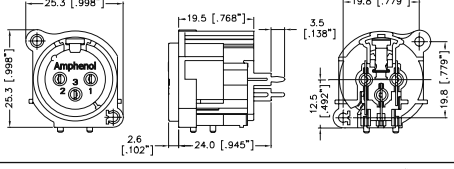

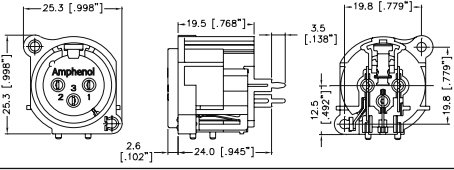

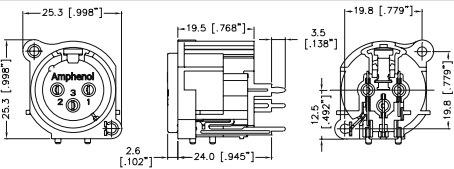

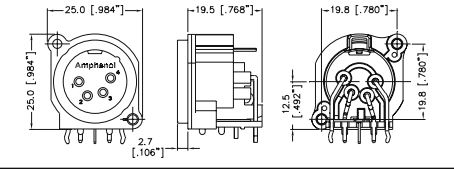

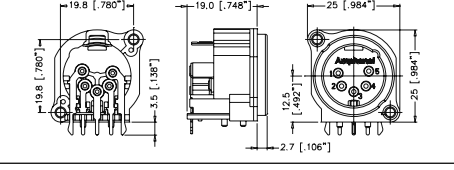

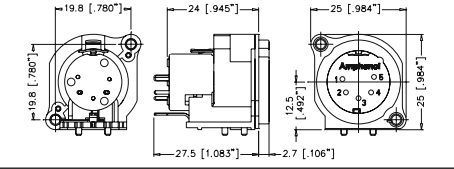

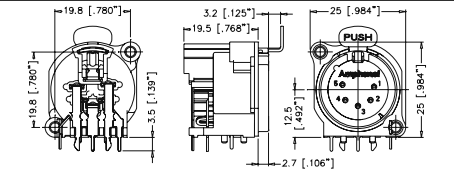

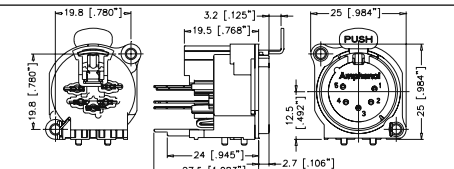
Recommended Fastener: [Page 134](#)

| PRODUCT - FIGURE | DRAWING | Dimensions in mm (inches) | DESCRIPTION | GROUND LINK VARIATIONS | PART NUMBER |
|------------------|---------|--|---|---|----------------|
| | | 25.4 [.998"] 19.5 [.768"] 19.8 [.780"] 12.5 [.492"] 19.8 [.780"] 2.7 [.106"] | XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack | No Ground Link | AC3MAH-AU-PRE |
| | | 25.4 [.998"] 19.5 [.768"] 19.8 [.780"] 12.5 [.492"] 19.8 [.780"] 2.7 [.106"] | XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack | Pin 1 to Chassis to Mating connector shell | AC3MAH1-AU-PRE |
| | | 25.4 [.998"] 19.5 [.768"] 19.8 [.780"] 12.5 [.492"] 19.8 [.780"] 2.7 [.106"] | XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack | Mating connector shell to Chassis - Pin 1 sep. Ground | AC3MAH2-AU-PRE |
| | | 25.4 [.998"] 19.5 [.768"] 19.8 [.780"] 12.5 [.492"] 19.8 [.780"] 2.7 [.106"] | XLR 3 pole male with integrated switch, Horizontal PCB, Gold Plated Contacts, Bulk Pack | Mating connector shell to Chassis to PCB, Pin 1 sep. Ground | AC3MAH4-SW-B |
| | | 25.4 [.998"] 24.0 [.945"] 19.5 [.768"] 19.8 [.780"] 12.5 [.492"] 19.8 [.780"] 2.7 [.106"] 3.5 [.138"] | XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack | No Ground Link | AC3MAV-AU-PRE |

XLR Connectors

AC Series XLR PCB Chassis Mount Connectors

| PRODUCT - FIGURE | DRAWING | Dimensions in mm (inches) | DESCRIPTION | GROUND LINK VARIATIONS | PART NUMBER |
|---|---|---------------------------|--|--|-----------------|
|  |  | | XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack | Mating connector shell to Chassis - Pin 1 sep. Ground | AC3MAV2-AU-PRE |
|  |  | | XLR 3 pole male, Solder Buckets, Gold Plated Contacts, Bulk Pack | No Ground Link | AC3MA-AU-B |
|  |  | | XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack | No Ground Link | AC3FAH-AU-PRE |
|  |  | | XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack | Pin 1 to Chassis to Mating connector shell | AC3FAH1-AU-PRE |
|  |  | | XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack | Mating connector shell to Chassis - Pin 1 sep. Ground | AC3FAH2-AU-PRE |
|  |  | | XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack | No Ground Link | AC3FAHL-AU-PRE |
|  |  | | XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack | Pin 1 to Chassis to mating connector shell | AC3FAHL1-AU-PRE |
|  |  | | XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack | Mating connector shell to Chassis - Pin 1 sep. Ground. | AC3FAHL2-AU-PRE |
|  |  | | XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack | No Ground Link | AC3FAV-AU-PRE |
|  |  | | XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack | Pin 1 to Chassis to Mating connector shell | AC3FAV1-AU-PRE |

| PRODUCT - FIGURE | DRAWING | Dimensions in mm (inches) | DESCRIPTION | GROUND LINK VARIATIONS | PART NUMBER |
|---|---|---------------------------|---|---|-----------------|
|  |  | | XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack | Mating connector shell to Chassis - Pin 1 sep. Ground. | AC3FAV2-AU-PRE |
|  |  | | XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack | No Ground Link | AC3FAVL-AU-PRE |
|  |  | | XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack | Pin 1 to Chassis to Mating connector shell | AC3FAVL1-AU-PRE |
|  |  | | XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack | Mating connector shell to Chassis - Pin 1 sep. Ground. | AC3FAVL2-AU-PRE |
|  |  | | XLR 4 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack | Mating connector shell to Chassis - Pin 1 sep. Ground | AC4MAH-AU-B |
|  |  | | XLR 5 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack | Mating connector shell to Chassis to PCB, Pin 1 sep. Ground | AC5MAH-AU-B |
|  |  | | XLR 5 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack | Mating connector shell to Chassis to PCB, Pin 1 sep. Ground | AC5MAV-AU-B |
|  |  | | XLR 5 pole female, Horizontal PCB, Gold Plated Contacts, Bulk Pack | Mating connector shell to Chassis to PCB, Pin 1 sep. Ground | AC5FAH-AU-B |
|  |  | | XLR 5 pole female, Vertical PCB, Gold Plated Contacts, Bulk Pack | Mating connector shell to Chassis to PCB, Pin 1 sep. Ground | AC5FAV-AU-B |

XLR Connectors

AC Series XLR PCB Chassis Mount Connectors



B TYPE

Features:

- Thermoplastic Shell with Metal Mounting Flange
- Contact layouts in 3 or 5
- Industry standard PCB footprints
- Improved grounding performance
- Vertical or Horizontal PCB mounting
- Precision machined pin contacts
- Gold plated contacts
- Leading first mate last break socket contact
- Bulk packed in trays, 100 to a box as standard
- Positive latch lock system

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


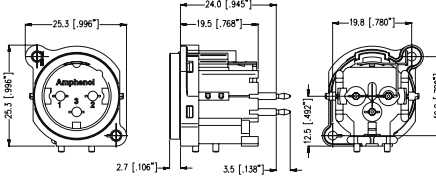

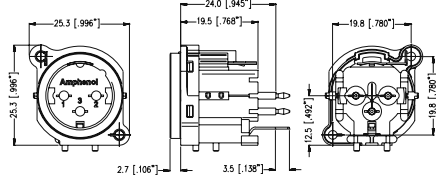

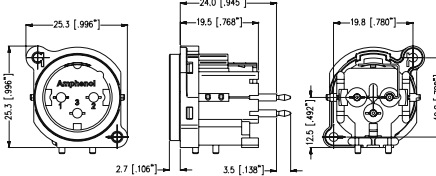

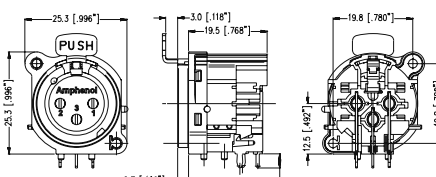

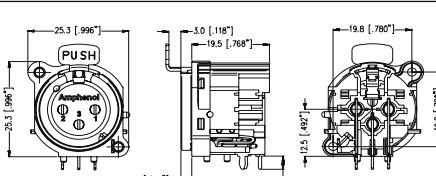

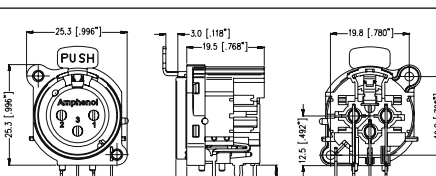

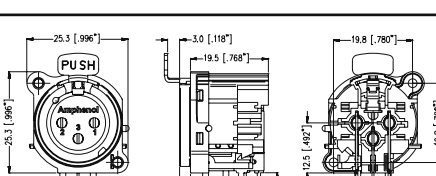

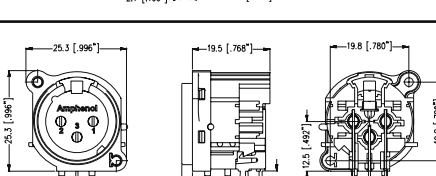
Part Number Breakdown: [Page 36](#) **Specifications:** [Page 39](#)

PCB Footprints: [Page 40](#)

Panel Cutouts: [Page 41](#)


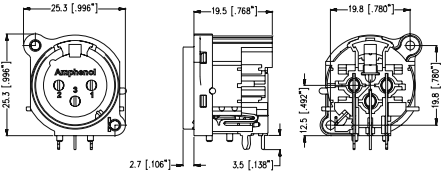

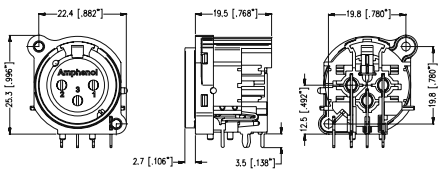

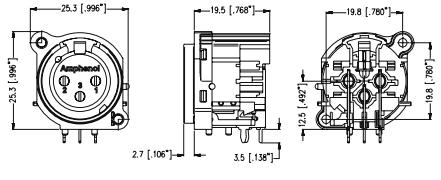

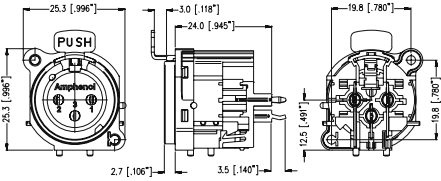

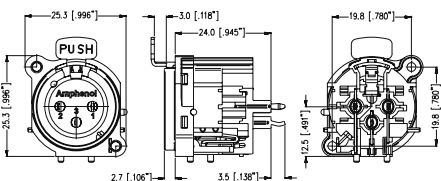

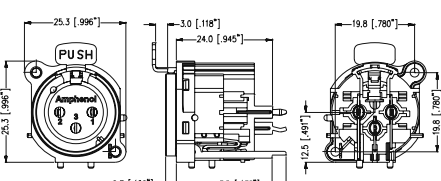

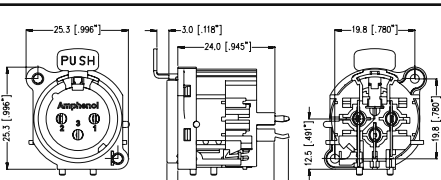

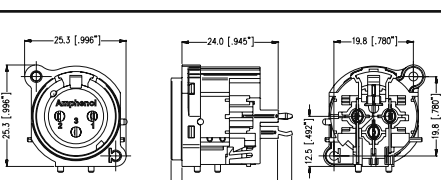
Recommended Fastener: [Page 134](#)


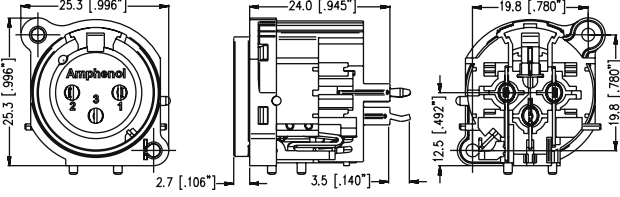

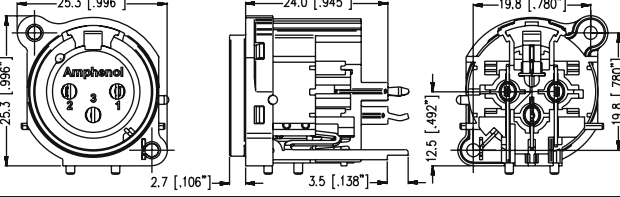

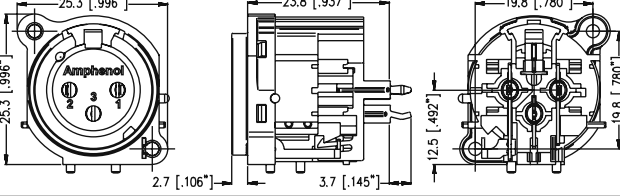

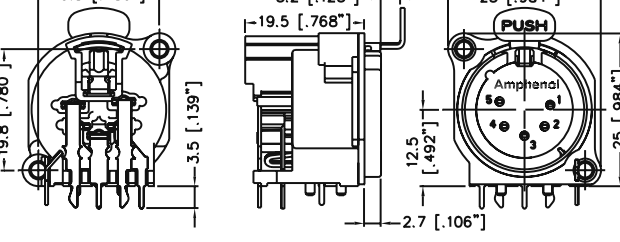

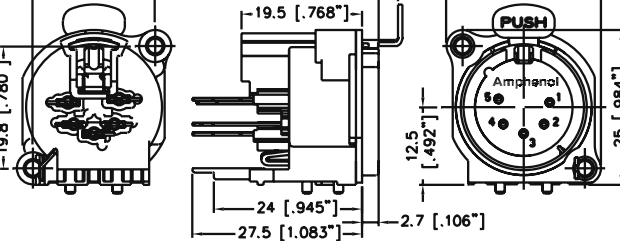

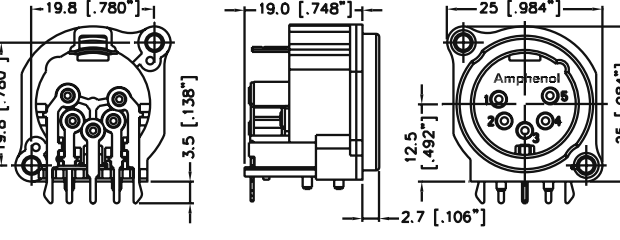

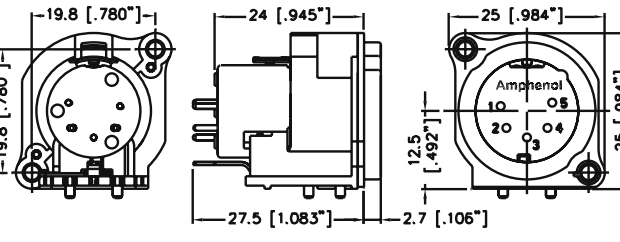
| PRODUCT - FIGURE | DRAWING | Dimensions in mm (inches) | DESCRIPTION/ GROUND LINK | MOUNTING FLANGE VARIATIONS | PART NUMBER |
|------------------|---------|---------------------------|--|-------------------------------|----------------|
| | | | XLR 3 pole male, Horizontal PCB, Gold Plated Contacts,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

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

XLR Connectors

AC Series XLR PCB Chassis Mount Connectors

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

| PRODUCT | DRAWING Dimensions in mm (inches) | DESCRIPTION/ GROUND LINK | FINISH | PART NUMBER |
|---|---|--|------------------|-----------------|
|  |  | XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis to Mating connector shell | Nickel Finish | AC3FBVL1-AU-PRE |
|  |  | XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack Mating connector shell to Chassis - Pin 1 sep. Ground. | Nickel Finish | AC3FBVL2-AU-PRE |
|  |  | XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis | Nickel Finish | AC3FBVL3-AU-PRE |
|  |  | XLR 5 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack | Nickel Finish | AC5FBH-AU-PRE |
|  |  | XLR 5 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack | Nickel Finish | AC5FBV-AU-PRE |
|  |  | XLR 5 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack | Nickel Finish | AC5MBH-AU-PRE |
|  |  | XLR 5 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack | Nickel Finish | AC5MBV-AU-PRE |

XLR Connectors

AC Series XLR PCB Chassis Mount Connectors

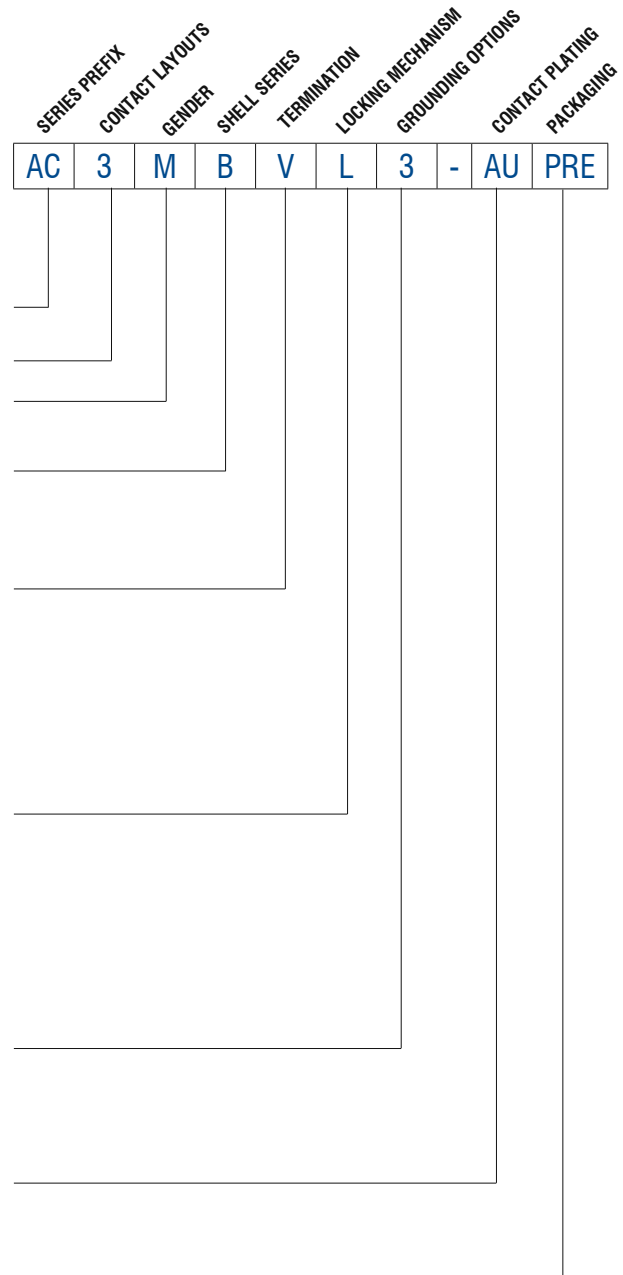
PART NUMBER BREAKDOWN

AC SERIES A AND B TYPE MALE - 3 CONTACT

E. G. **AC3MAVL3-AU PRE**

AC (series prefix), **3** contacts, **Male**, **A** Type, **Vertical** Printed Circuit Board, **Latchless**, **3** (Mating Shell to Pin 1 Grounding), - **AU** (Gold Plated Contacts), **PRE** Bulk Packaged.

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

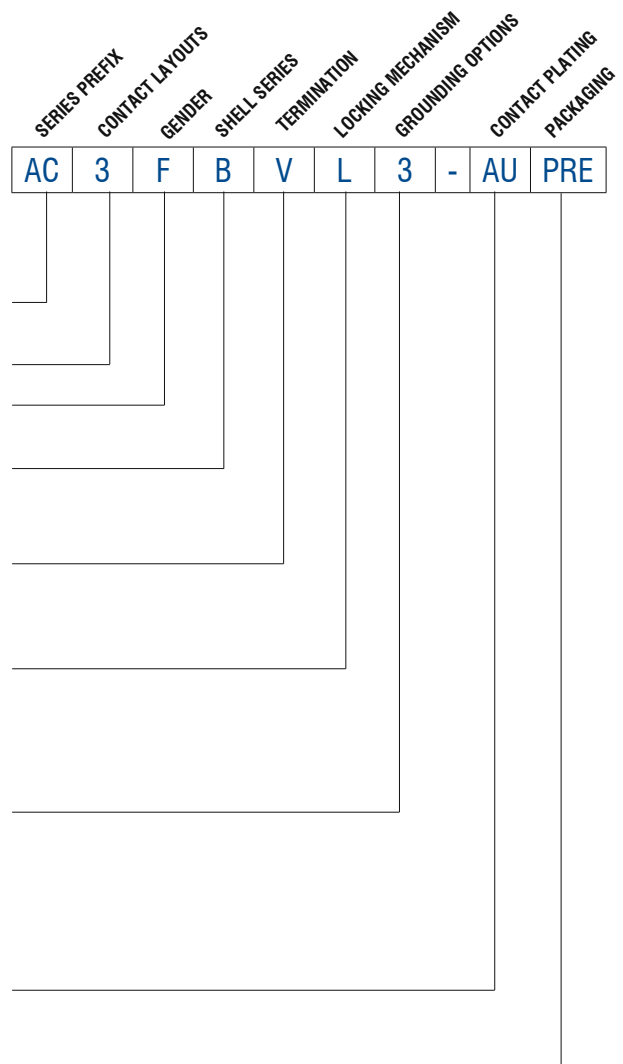


PART NUMBER BREAKDOWN

AC SERIES A AND B TYPE FEMALE - 3 CONTACT

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

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

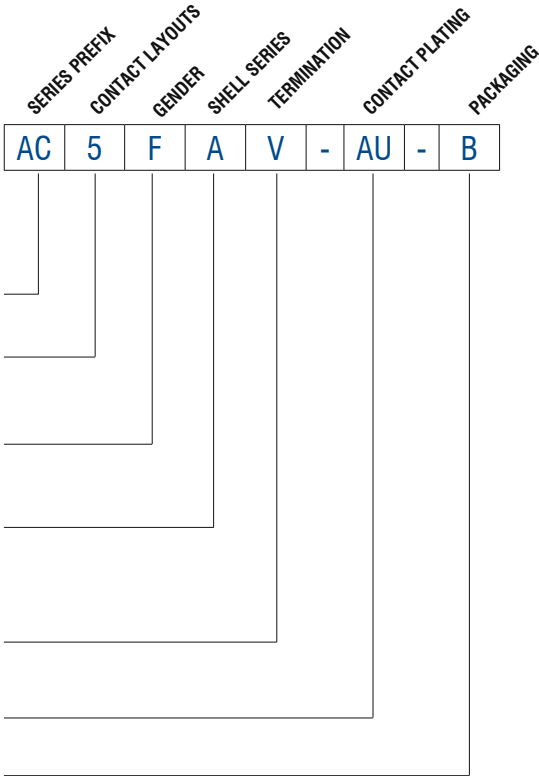


PART NUMBER BREAKDOWN




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

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

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



STANDARD DATA AC SERIES A AND B TYPE CHASSIS

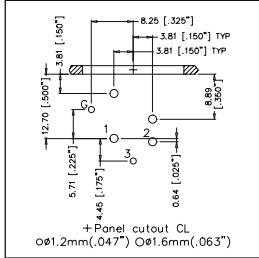
| | | VALUE | | |
|-----------------------------------|--|---|---|---|
| GENERAL CHARACTERISTICS | Number of contacts | 3 | 4 | 5 |
| | Contact Arrangements (Front view of pin insert) |  |  |  |
| | Termination | Printed Circuit Board (PCB) | | |
| | Flammability rating of plastics | UL94V-0 | | |
| | Environmental | Complies with EU RoHS 2 Directive 2011/65/EU | | |
| ELECTRICAL CHARACTERISTICS | Service Voltage RMS | 133V ¹ | | |
| | Test Voltage AC RMS | 1500V | | |
| | Current carrying capacity | 6A | | 3A |
| | Typical Contact Resistance | ≤5mΩ | | |
| | Insulation Resistance (initial) | ≥2GΩ | | |
| | Insulation Resistance (after damp heat test) | ≥1GΩ | | |
| CLIMATIC CHARACTERISTICS | Protection Class | IP40 | | |
| | Operating Temperature | -25 °C to +75 °C (-13°F to +167°F) | | |
| MECHANICAL CHARACTERISTICS | Weight ² | 14g (0.030lb) | | |
| | Retention Spring separating force | ≥20N | | |
| | Mounting Screw torque max. | 1.5Nm | | |
| | Mechanical Operations | 1500 mating cycles | | |
| | Fastening A Type Connectors ³ | Self-Tapping PT screw with thread 2.9 x 1.06 and of Tri-rondular configuration | | |
| | Fastening B Type Connectors ³ | Self-Tapping screw M2.5 | | |
| MATERIALS | Connector Flange - B-Type | Diecast Zinc Alloy | | |
| | Flange Finish - B-Type | Nickel | | |
| | Insulators | PA6.6+25% glass fibre reinforced, UL94V-0 | | |
| | Male Contact Material | Brass | | |
| | Male Contact Plating | 0.05μm gold over 2μm nickel | | |
| | Female Contact Material | Bronze | | |
| | Female Contact Plating | 0.05μm gold over 2μm nickel | | |
| | Latch lock and Spring | Spring Steel | | |
| | Ground element | Spring Steel | | |

¹ Not suitable for domestic applications above 50V

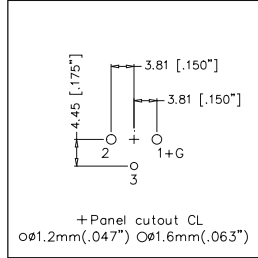
² Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.

³ Refer to page 134

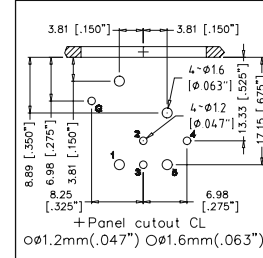
AC SERIES A AND B TYPE CHASSIS PCB FOOTPRINTS - CONNECTOR SIDE OF PCB



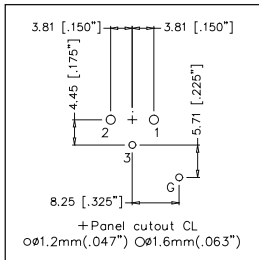
**AC3FAH2
AC3FBH2**



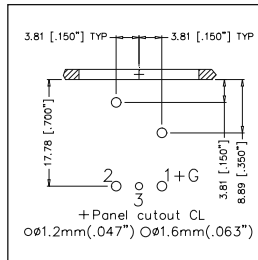
**AC3FAV1
AC3FAV3
AC3FBV1
AC3FBV3
AC3FAV
AC3FBV**



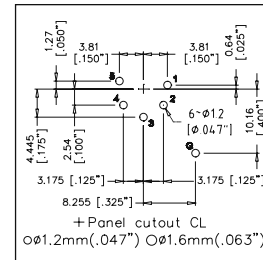
AC5FAH



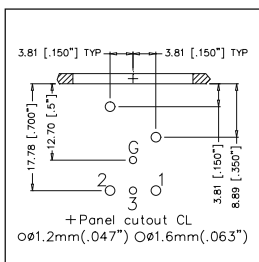
**AC3FAV2
AC3FBV2**



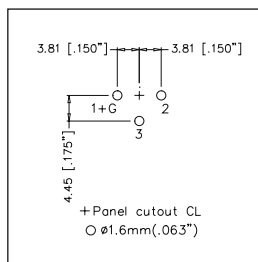
**AC3MAH1
AC3MAH3
AC3MBH1
AC3MBH3
AC3MAH
AC3MBH
AC3MBHL**



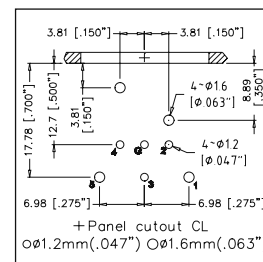
AC5FAV



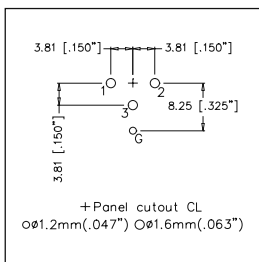
**AC3MAH2
AC3MAH4
AC3MBH2**



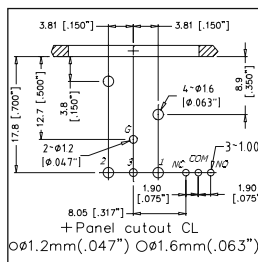
**AC3MAV1
AC3MAV3
AC3MBV1
AC3MBV3
AC3MAV
AC3MBV**



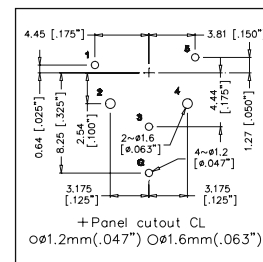
AC5MAH



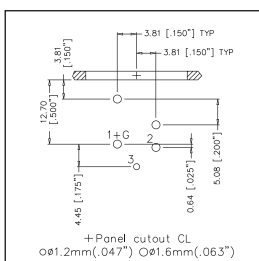
**AC3MAV2
AC3MAV4
AC3MBV2**



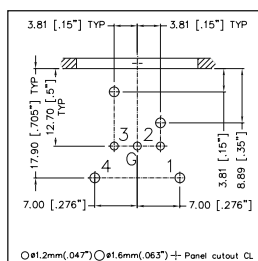
AC3MAH4SWB



AC5MAV



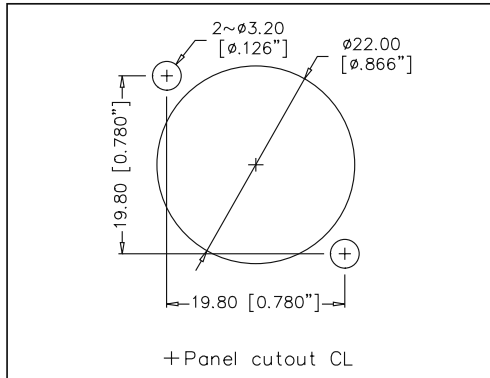
**AC3FAH1
AC3FAH3
AC3FBH1
AC3FBH3
AC3FAH
AC3FBH**



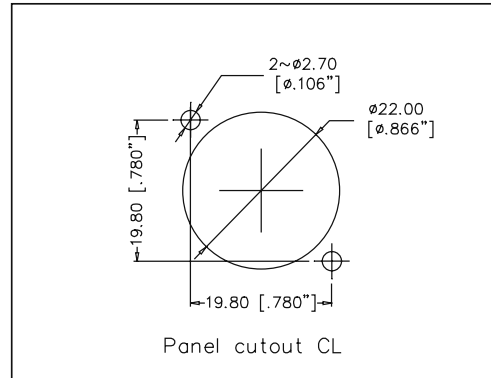
AC4MAH

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

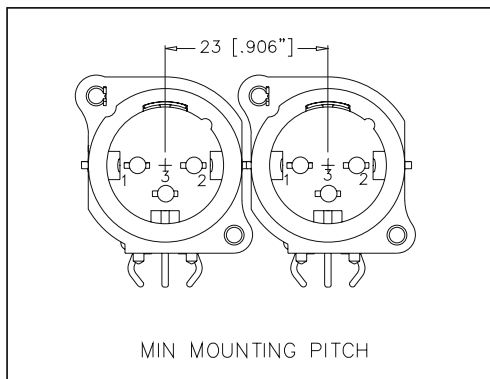
A TYPE



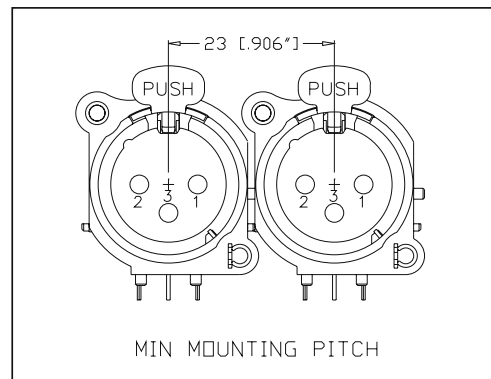
B TYPE



**A AND B
TYPE MALE
MOUNTING
PITCH**

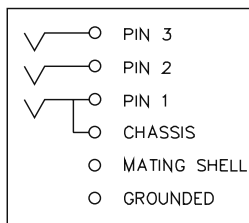


**A AND
B TYPE
FEMALE
MOUNTING
PITCH**

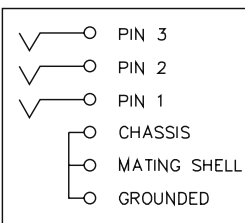


AC3FA/BH/V SCHEMATIC CHART

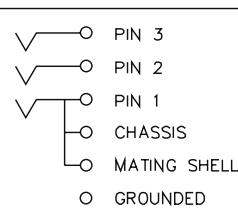
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AC3FA/BH/VL3-AU



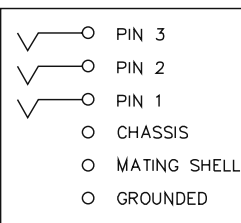
AC3FA/BH/V2-AU
AC3FA/BH/VL2-AU



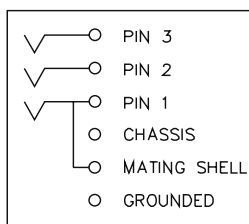
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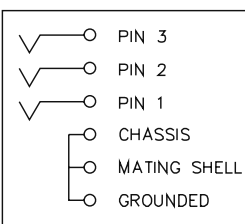
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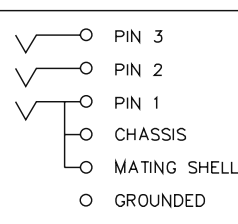
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AC3MA/BH/VL3-AU



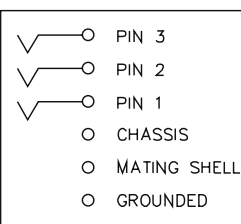
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AC3MA/BH/VL2/4-AU



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



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



XLR Connectors

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



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

Features

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

Options

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

Ordering Codes

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

AC SERIES DUAL 1/4" (6.35MM) / XLR CHASSIS MOUNT

Simple steps to guide you in using this catalogue

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

XLR Connectors

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



Features:

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

Part Number Breakdown: [Page 48](#)

Specifications: [Page 50](#)


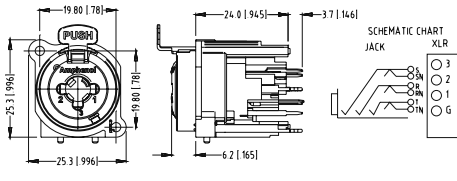

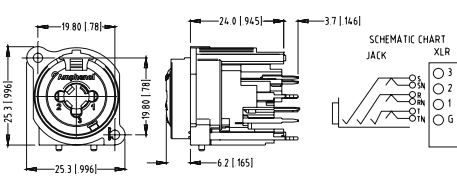

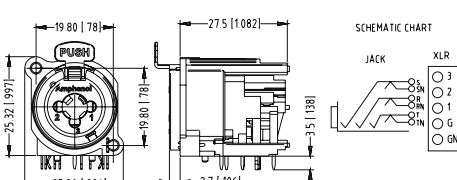

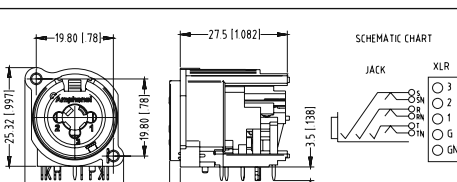

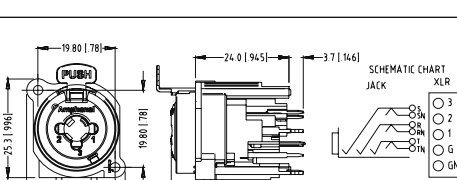

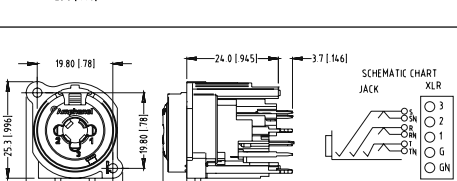
PCB Footprints: [Page 49](#)

Recommended Fastener: [Page 134](#)

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

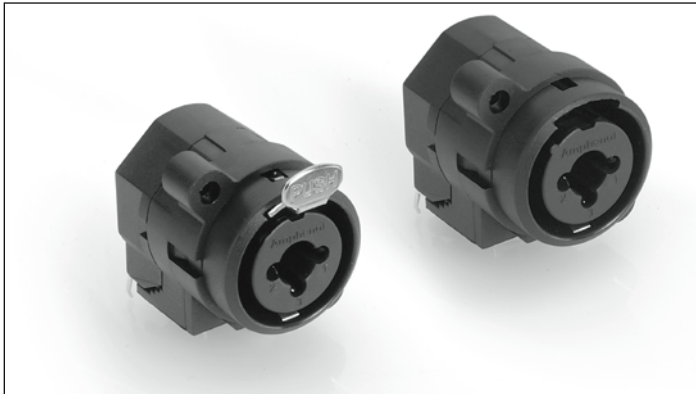
XLR Connectors

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

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

XLR Connectors

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



Features:

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

Part Number Breakdown: [Page 48](#)

Specifications: [Page 50](#)


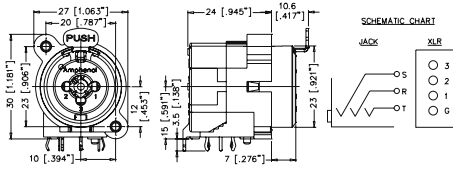

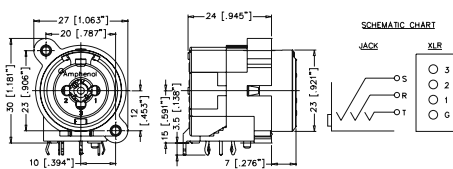

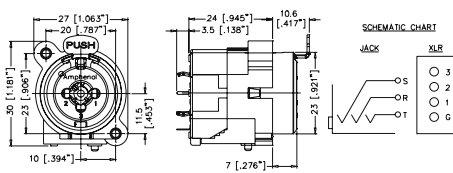

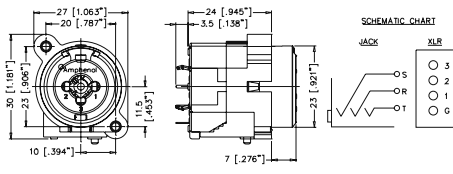

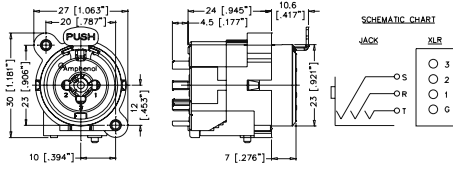

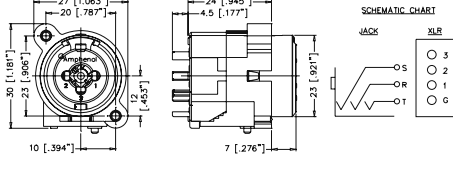

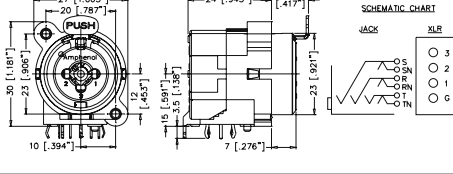

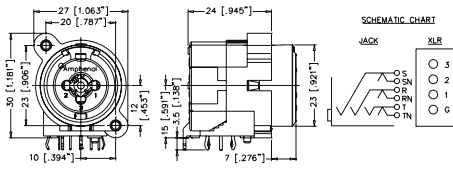
PCB Footprints: [Page 49](#)

Recommended Fastener: [Page 134](#)

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


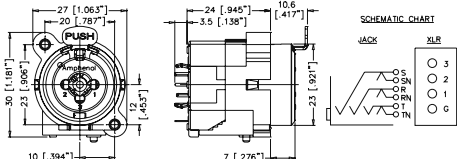

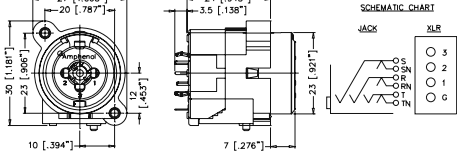

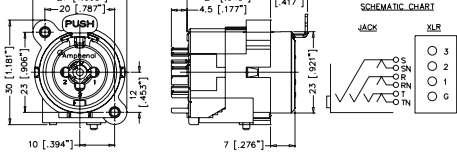

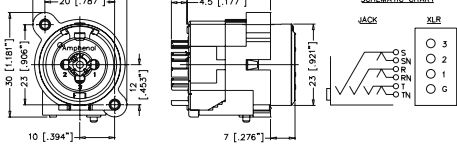

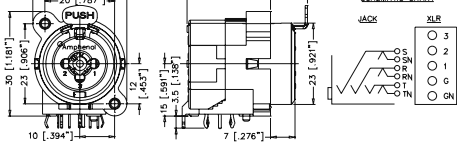

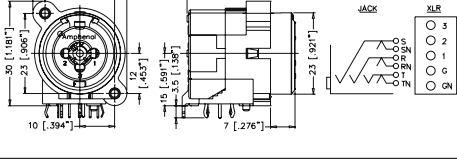

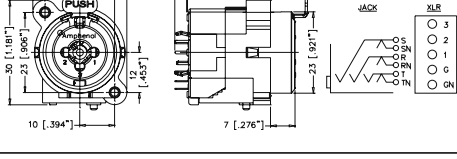

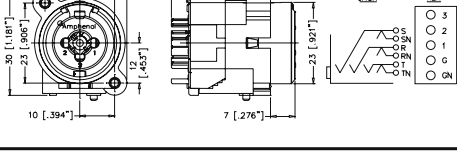
XLR Connectors

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

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


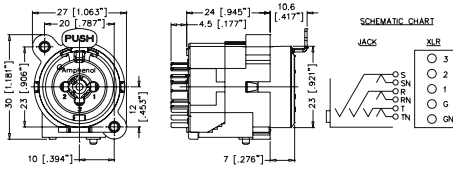

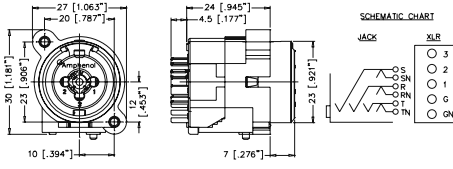
XLR Connectors

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

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

XLR Connectors

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

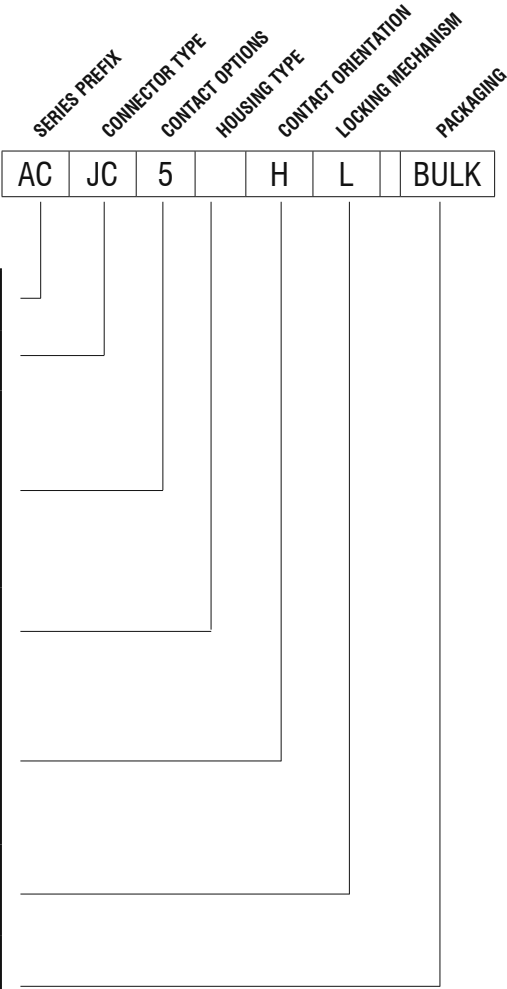
| PRODUCT - FIGURE | DRAWING | Dimensions in mm (inches) | DESCRIPTION | VARIATIONS | PART NUMBER |
|---|---|---------------------------|---|--------------------------------|---------------|
|  |  | | XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Solder Contacts,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

PART NUMBER BREAKDOWN

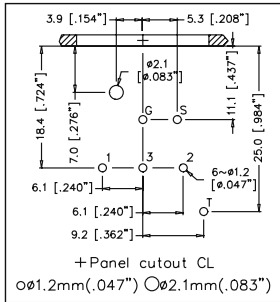
AC SERIES THERMOPLASTIC C TYPE

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

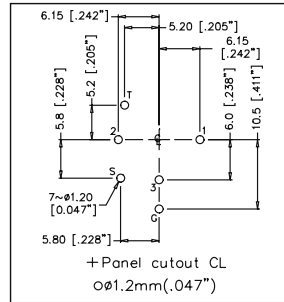
| | | | |
|-------------------|----------------------|---|--|
| SERIES PREFIX | AC | = | Series Prefix |
| CONNECTOR TYPE | JC | = | Jack / Connector XLR |
| CONTACT OPTIONS | 5 6 9 10 | = | Mono, Non Switching, XLR Grounded Stereo, Non Switching, XLR Grounded Stereo, Switching, XLR Grounded Stereo,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



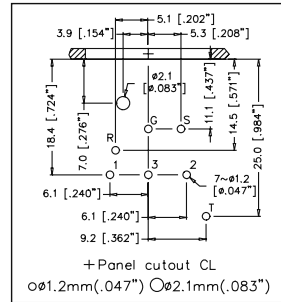
AC SERIES C TYPE SERIES



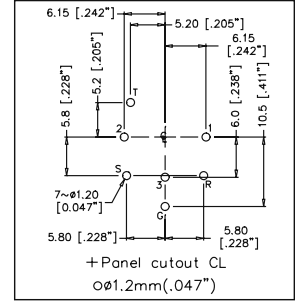
ACJC5H & ACJC5HL



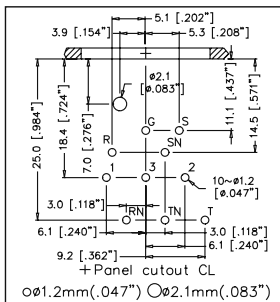
ACJC5V & ACJC5VL



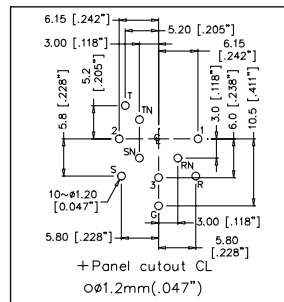
ACJC6H & ACJC6HL



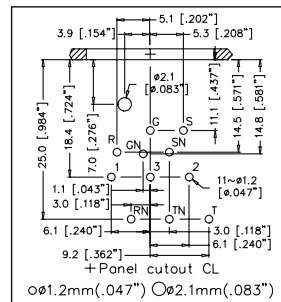
ACJC6V & ACJC6VL



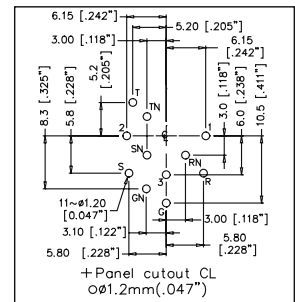
ACJC9H & ACJC9HL



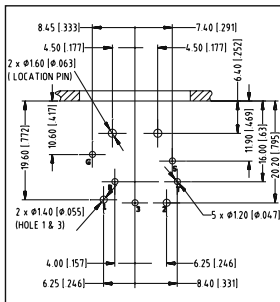
ACJC9V & ACJC9VL



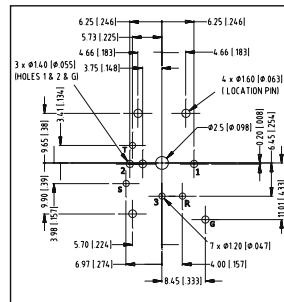
ACJC10H & ACJC10HL



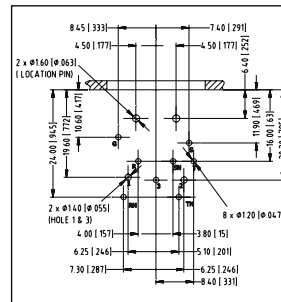
ACJC10V & ACJC10VL



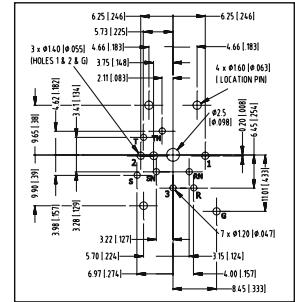
ACJC6AH & ACJC6AHL



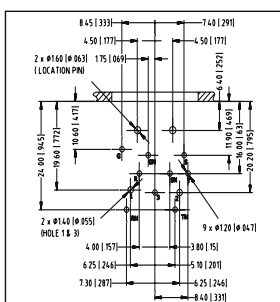
ACJC6AV2 & ACJC6AV2L



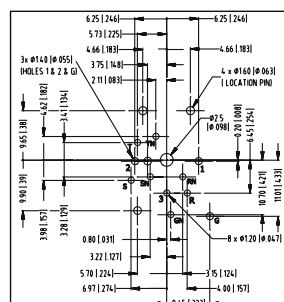
ACJC9AH & ACJC9AHL



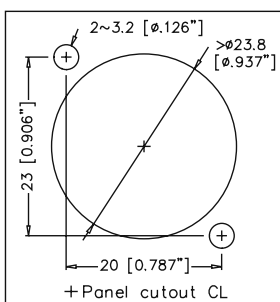
ACJC9AV2 & ACJC9AV2L



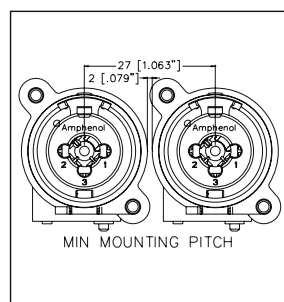
ACJC10AH & ACJC10AHL



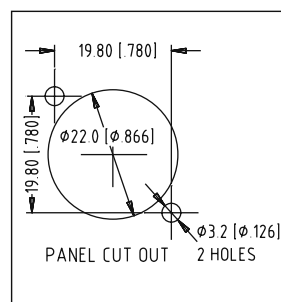
ACJC10AV2 & ACJC10AV2L



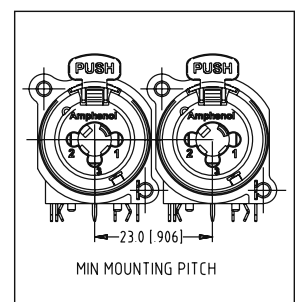
C TYPE PANEL CUTOUT



C TYPE MOUNTING PITCH



C TYPE LOW PROFILE
PANEL CUTOUT



C TYPE LOW PROFILE
MOUNTING PITCH

STANDARD DATA C TYPE CHASSIS RECEPTACLES

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

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

***Refer to Page 134

Rev 6 - 03/2013



G-TYPE MINIATURE XLR CONNECTORS

Features:

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


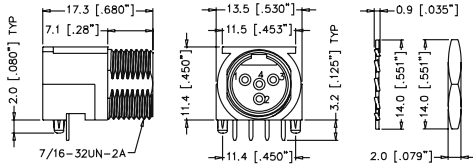

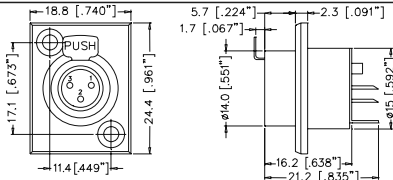
Part Number Breakdown: Page 52
PCB Footprints: Page 54

Specifications: Page 53
Panel Cutouts: Page 54

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

XLR Connectors

G-Type Miniature XLR Connectors

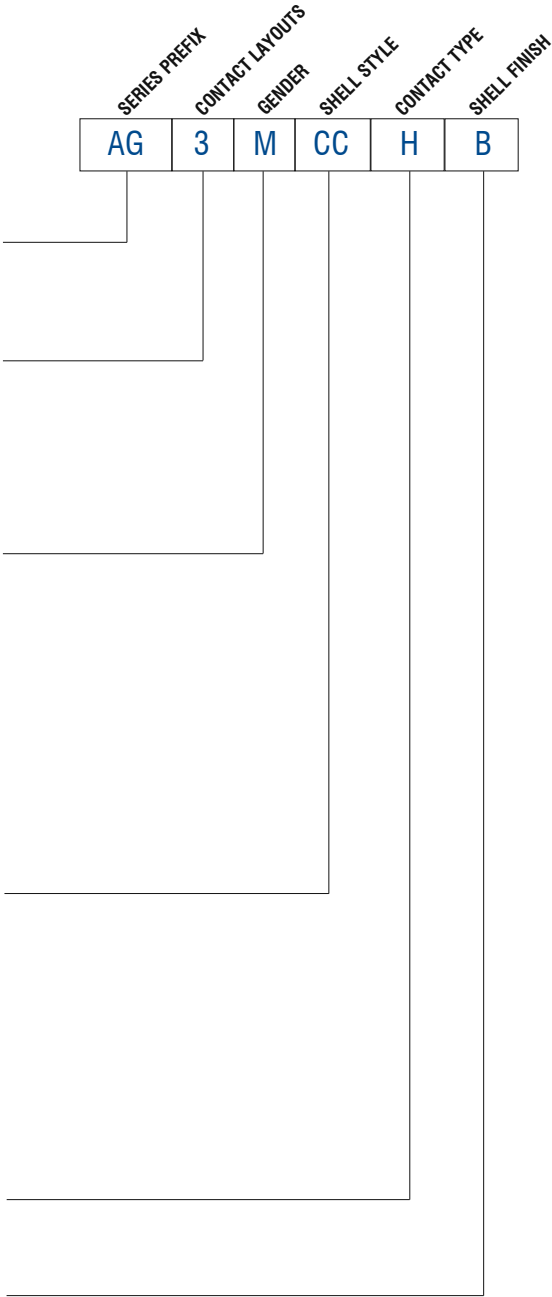
| | | | | |
|---|--|--|--------------------------------------|--|
|  |  | Male chassis connector, Horizontal PCB, Machined contacts, Thermoplastic shell | 4 pole | AG4MPCH |
|  |  | Female chassis connector, Stamped contacts, Nickel Finish | 3 pole 4 pole 5 pole 6 pole | AG3FCRV AG4FCRV AG5FCRV AG6FCRV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

PART NUMBER BREAKDOWN

G TYPE CONNECTORS

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

| | | | |
|-----------------|-------|---|---|
| SERIES PREFIX | AG | = | Series Prefix |
| CONTACT LAYOUTS | 3 | = | 3 Contacts |
| | 4 | = | 4 Contacts |
| | 5 | = | 5 Contacts |
| | 6 | = | 6 Contacts |
| GENDER | F | = | Female Socket Contacts |
| | M | = | Male Pin Contacts |
| | Blank | = | Cable Connector Standard (Male or Female) |
| SHELL STYLE | J | = | Cable Connector Large Cable clamp / boot O.D (Male or Female) |
| | L | = | Cable Connector with locking ring (Female) |
| | LL | = | Latchless (Chassis Connector) |
| | CC | = | Chassis Connector Circular Metal (Male) |
| | CE | = | Rear Mount (Chassis Connector) |
| | CM | = | Mid Mount (Chassis Connector) |
| | CR | = | Chassis Connector Rectangular Metal (Female) |
| | PC | = | Chassis Connector Plastic (Male) |
| | Blank | = | Solder Buckets (All styles except PC, CR) |
| CONTACT TYPE | H | = | Horizontal PCB (Style CC, PC only) |
| | V | = | Vertical PCB (Style CR only) |
| | Blank | = | Nickel Plated Finish |
| SHELL FINISH | B | = | Black Finish |



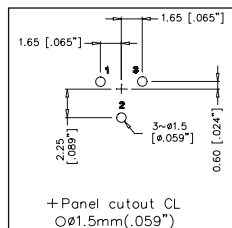
STANDARD DATA G TYPE

| | | VALUE | | | |
|-----------------------------------|---|--|--|----|------------------------------|
| GENERAL CHARACTERISTICS | Number of Contacts | 3 | 4 | 5 | 6 |
| | Termination | Printed Circuit Board (PCB) or Solder Bucket | | | |
| | Max. Wire Gauge - Stranded Wire | AWG 24 - 0.2mm ² | | | AWG 28 - 0.08mm ² |
| | Flammability | UL94V-HB | | | |
| | Environmental | Complies with EU RoHS 2 Directive 2011/65/EU | | | |
| ELECTRICAL CHARACTERISTICS | Current Carrying Capacity | 5A | 5A | 4A | 1.2A |
| | Typical Contact Resistance | ≤10mΩ | | | |
| | Insulation resistance (initial) After Damp Heat Test | ≥510MΩ ≥10MΩ | | | |
| | Dielectric Strength | 1000 V dc | | | 250 V dc |
| CLIMATIC CHARACTERISTICS | Protection Class | IP00 | | | |
| | Operating Temperature | -30 °C to +80 °C (-20F - +176F) | | | |
| MECHANICAL CHARACTERISTICS | Insertion Spring Separating Force | | ≥20N | | |
| | Cable O.D. | Standard | 2mm to 3.5mm (0.078" to 0.137") | | |
| | | Large clamp / boot (Option "J") | 3mm to 5mm (0.118" to 0.196") | | |
| | Mechanical Operations | | 5000 mating cycles | | 2000 mating cycles |
| | Weight | | 13.5g (0.029lb) | | |
| MATERIALS | Connector Shell | | Bronze & Zinc | | |
| | Connector Shell Finish | | Nickel Plated | | |
| | Insulators | | PPS - Black | | |
| | Male Contact | | Material - Brass C3604 Plating - Gold over Silver Plated | | |
| | Female Contact | | Material - Brass C5210P Plating - Gold over Silver Plated | | |
| | Latch Lock and Spring | | SUS (AISI - 301) - Nickel Plated | | |
| | Adaptor | | PPS - Black | | |
| | Cable Clamp | | Bronze - Nickel Plated | | |
| | Boot/Backshell | | ABS - Black | | |
| | Grommet | | PU - Black | | |

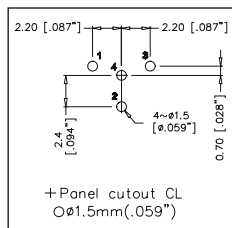
Rev 7 - 09/2023

¹⁾ Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.
Not suitable for voltages over 50V.

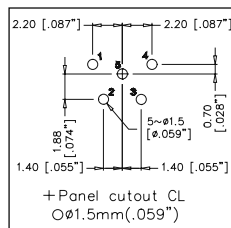
PANEL CUTOUTS - CONNECTOR SIDE OF PCB



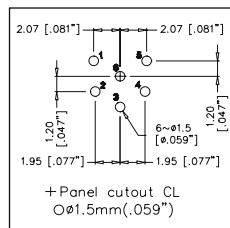
AG3MCC



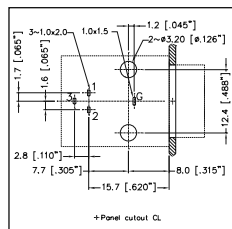
AG4MCC



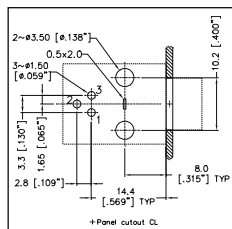
AG5MCC



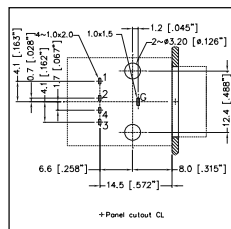
AG6MCC



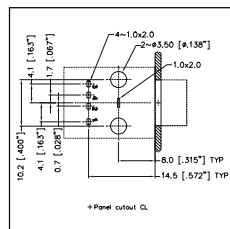
AG3FCCH



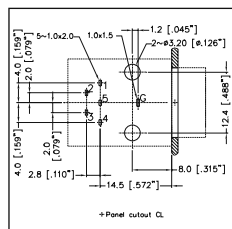
AG3MCCH



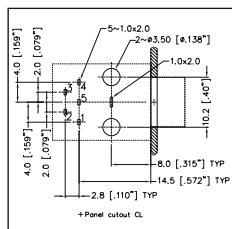
AG4FCCH



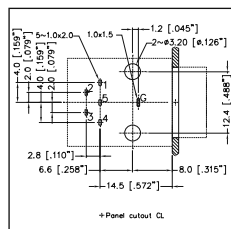
AG4MCCH



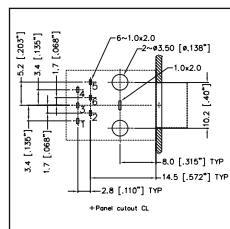
AG5FCCH



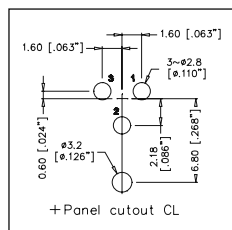
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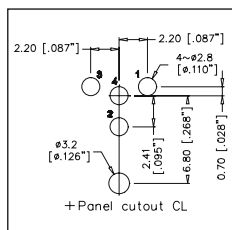
AG6FCCH



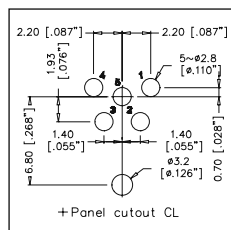
AG6MCCH



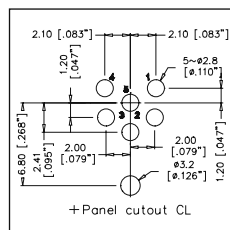
AG3FCRV



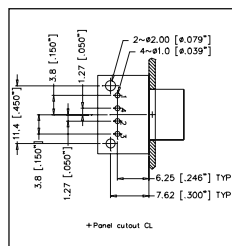
AG4FCRV



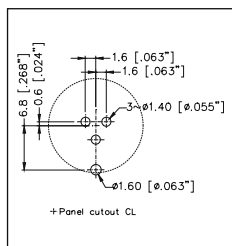
AG5FCRV



AG6FCRV

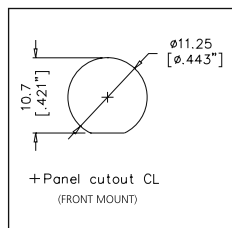


AG4MPCH

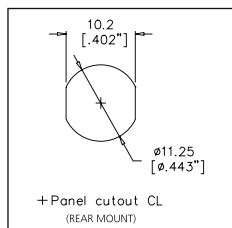


AG3FCE

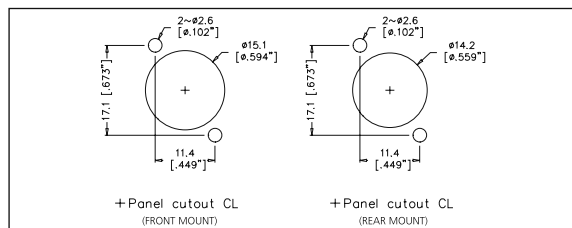
PANEL CUTOUTS - FRONT VIEW



**AG3MCC
AG4MCC
AG5MCC
AG6MCC**



**AG3MCCH
AG4MCCH
AG5MCCH
AG6MCCH
AG4MPCH**



**AG3FCRV
AG4FCRV
AG5FCRV
AG6FCRV**

SP/EP/AP SERIES LOUDSPEAKER CONNECTORS



SP Series

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

Features

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

Options

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

EP Series

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

Features

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

Options

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

AP Series

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

Features

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

Options

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

Ordering Codes

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

Simple steps to guide you in using this catalogue

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

Speaker Connectors

SP Series



SP SERIES

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

Features:

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



Part Number Breakdown: Page 60

PCB Footprints: Page 62


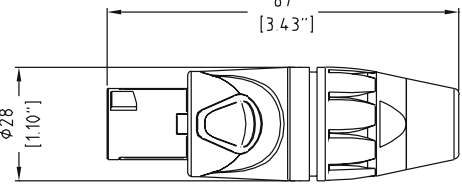

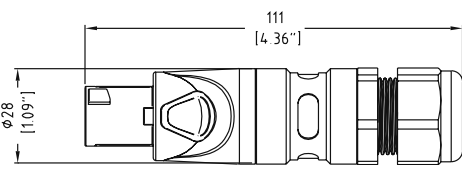

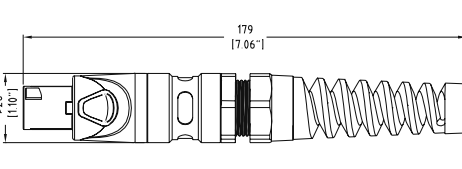

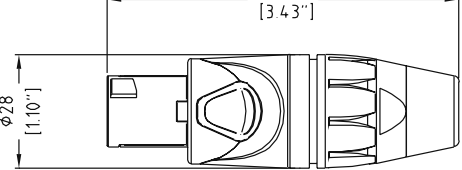

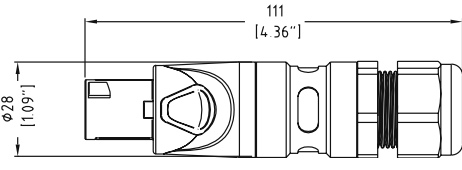

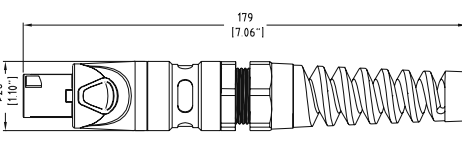
Specifications: Page 64

Assembly Instructions: 63

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


Speaker Connectors

SP Series

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


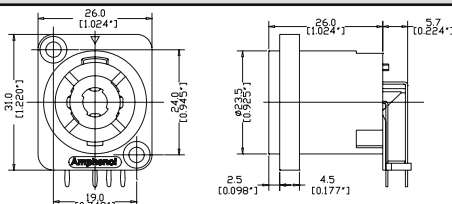

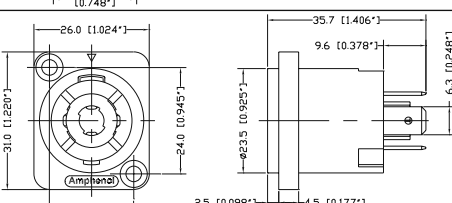

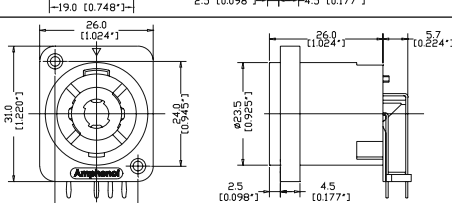

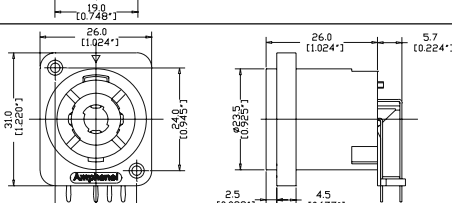

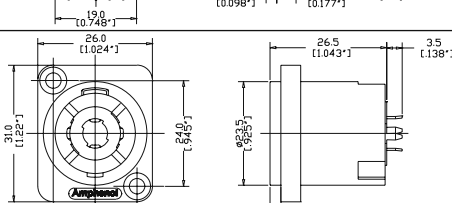

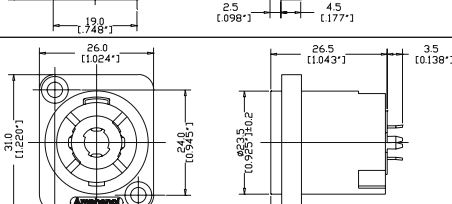

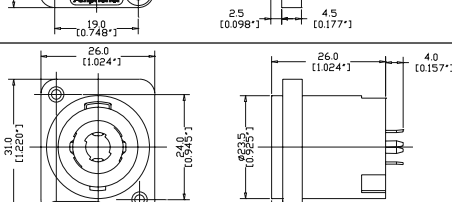

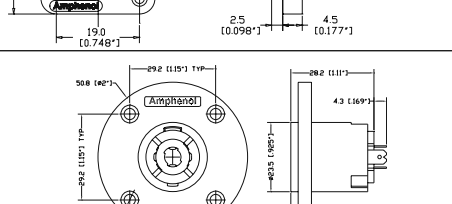
Speaker Connectors

SP Series

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

Speaker Connectors

SP Series

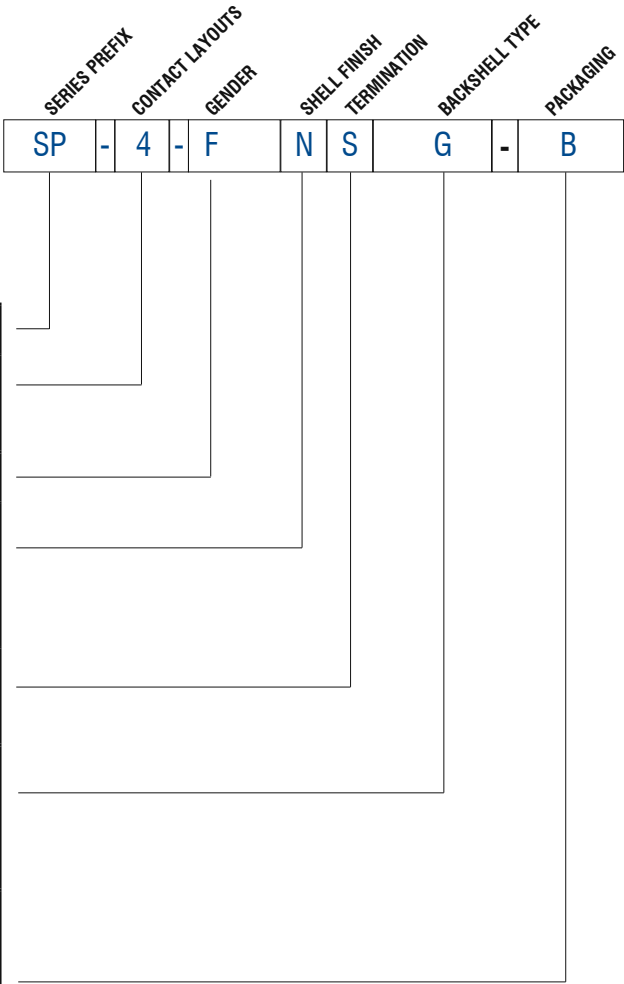
| PRODUCT - FIGURE | DRAWING | Dimensions in mm (inches) | DESCRIPTION | VARIATIONS | PART NUMBER |
|---|---|---------------------------|--|------------|-------------|
|  |  | | 4 pole, D flange, Thru holes, Horizontal PCB | Black | SP-4-MDH |
|  |  | | 4 pole, D flange, Thru holes, Solder tabs 1/4"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

PART NUMBER BREAKDOWN

SP SERIES - CABLE CONNECTORS

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

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

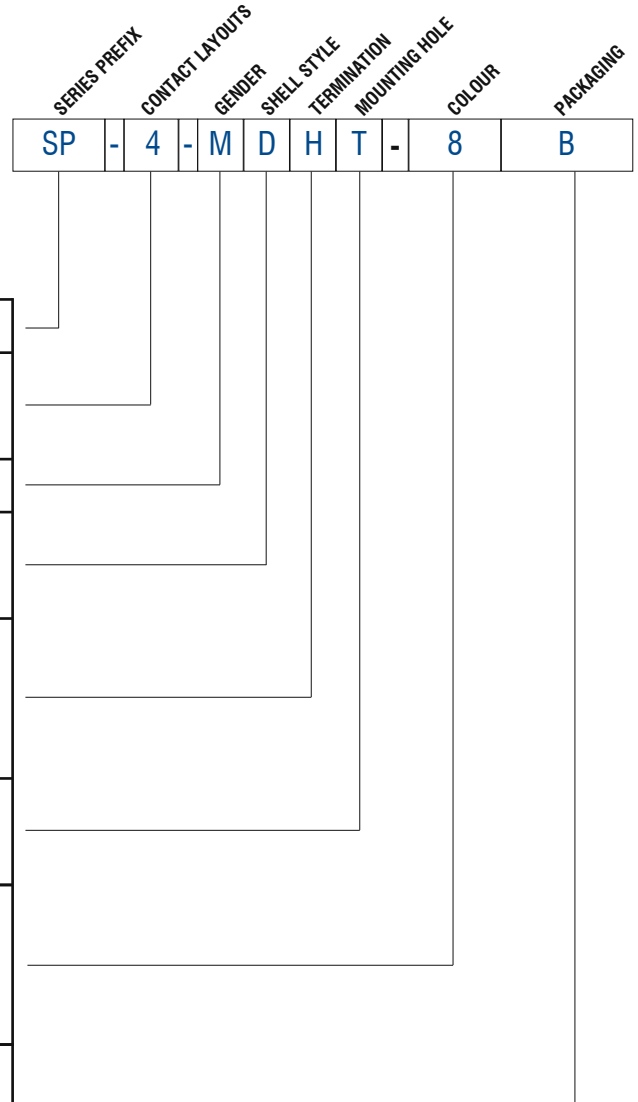


PART NUMBER BREAKDOWN

SP SERIES - CHASSIS CONNECTORS

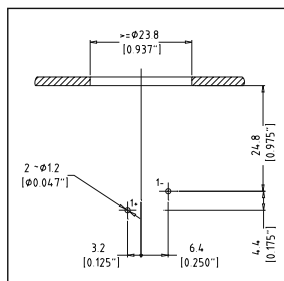
E. G. **SP-4-MDHT-8B**
SP (Series Prefix), **4** contacts, **M**(Chassis Connector), **D** (D Shell), **H**orizontal Printed Circuit Board, Self Tapping mounting holes - **8** (Grey), **B**ulk Packaged.

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

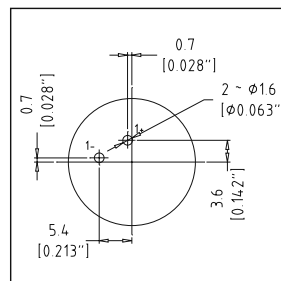


SP SERIES

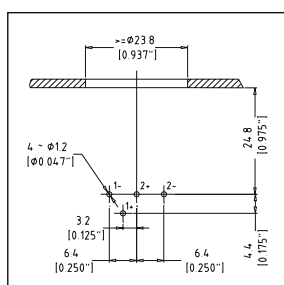
SP-2-MDH



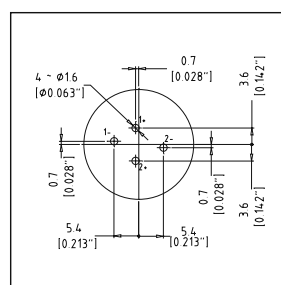
SP-2-MDV



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

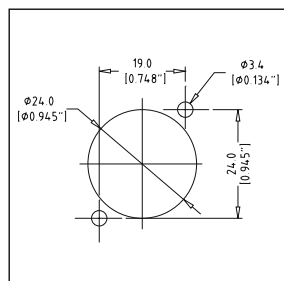


SP-4-MDV
SP-4-MDV-2
SP-4-MDVT-8

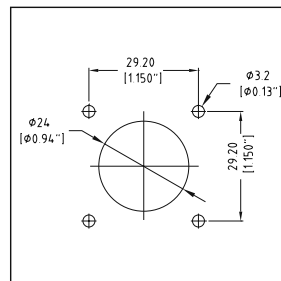


SP SERIES PANEL CUTOUT

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



SP-4-MC

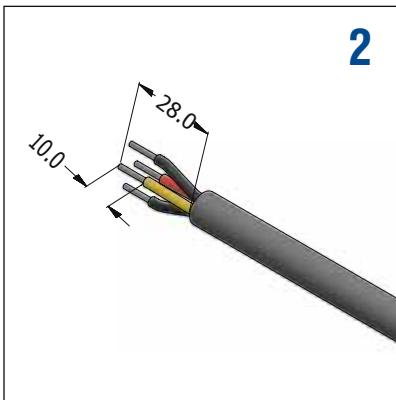


PI 1070 ASSEMBLY INSTRUCTIONS

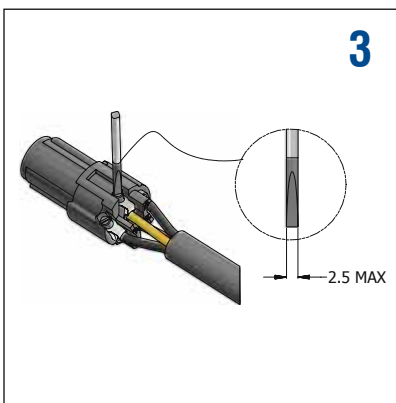
SP SERIES CABLE CONNECTOR



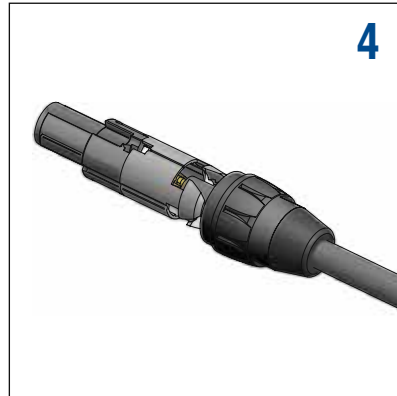
Slide the nut onto the cable



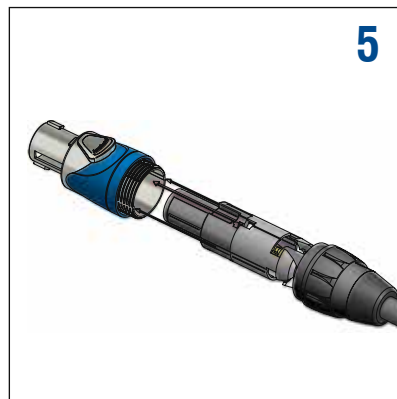
Strip the cable and twist the conductors.



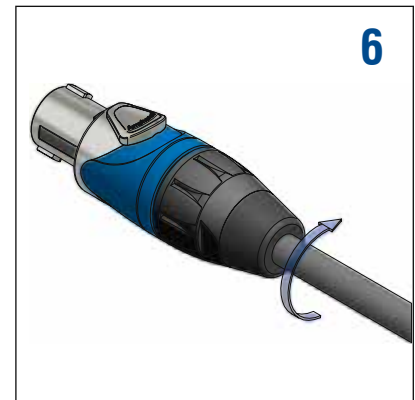
Insert the conductors into the rear of contacts on the insert. Tighten the screws to 0.35Nm (3.0 lb-in) using a flat screwdriver with tip width of 2.5mm max.



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



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



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

STANDARD DATA SP SERIES CONNECTORS

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

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

¹⁾ Not suitable for domestic applications above 50V

Rev 7 - 12/2020



EP SERIES

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


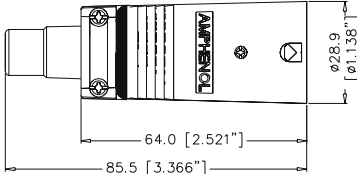
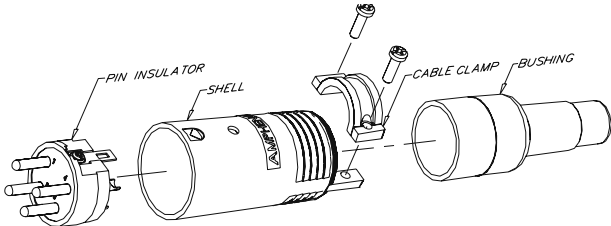

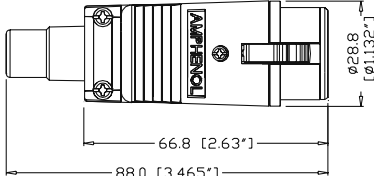
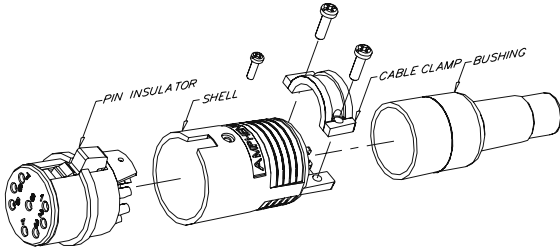
Features:

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

Options: Black Finish Shell


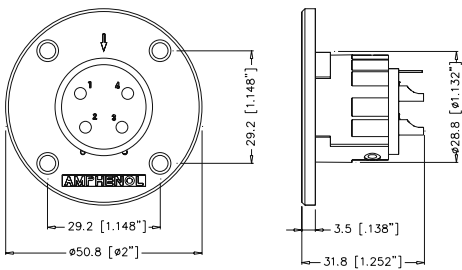

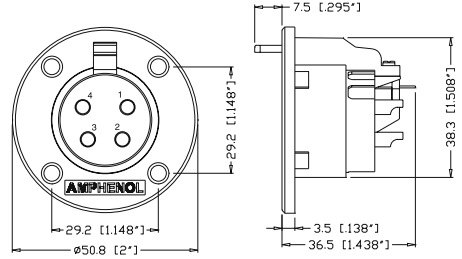
Specifications: [Page 68](#)

Panel Cutouts: [Page 69](#)

| PRODUCT - FIGURE | DRAWING | Dimensions in mm (inches) | DESCRIPTION | VARIATIONS | PART NUMBER |
|---|--|---|----------------------|------------|-------------|
|  ISO ASSEMBLY OF EP MALE |  | EP Male cable connector, Machined contacts, Metal Shell | 3 pole nickel finish | EP-3-12 | |
| | | | 3 pole black finish | EP-3-12B | |
| | | | 4 pole nickel finish | EP-4-12 | |
| | | | 4 pole black finish | EP-4-12B | |
| | | | 5 pole nickel finish | EP-5-12 | |
| |  | | 5 pole black finish | EP-5-12B | |
| | | | 6 pole nickel finish | EP-6-12 | |
| | | | 6 pole black finish | EP-6-12B | |
| | | | 8 pole nickel finish | EP-8-12 | |
| | | | 8 pole black finish | EP-8-12B | |
|  ISO ASSEMBLY OF EP FEMALE |  | EP Female cable connector, Machined contacts, Metal Shell | 3 pole nickel finish | EP-3-11P | |
| | | | 3 pole black finish | EP-3-11PB | |
| | | | 4 pole nickel finish | EP-4-11P | |
| | | | 4 pole black finish | EP-4-11PB | |
| | | | 5 pole nickel finish | EP-5-11P | |
| |  | | 5 pole black finish | EP-5-11PB | |
| | | | 6 pole nickel finish | EP-6-11P | |
| | | | 6 pole black finish | EP-6-11PB | |
| | | | 8 pole nickel finish | EP-8-11P | |
| | | | 8 pole black finish | EP-8-11PB | |

Speaker Connectors

EP Series

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



AP SERIES

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

Features:

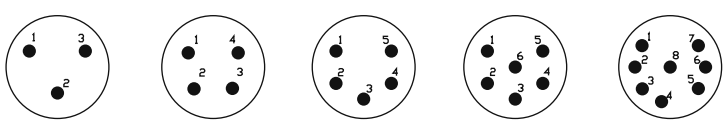
- Solder Bucket connections.
- Precision machined contacts.
- Thermoplastic Housings
- High current contacts
- Male & Female Cable and Chassis connectors available.

Specifications: [Page 68](#)

Panel Cutouts: [Page 69](#)

| PRODUCT - FIGURE | DRAWING | Dimensions in mm (inches) | DESCRIPTION | VARIATIONS | PART NUMBER |
|------------------|---------|---------------------------|--|------------|-------------|
| | | | AP Male cable connector, Machined contacts, Thermoplastic Black shell. | 4 pole | AP-4-12 |
| | | | | 5 pole | AP-5-12 |
| | | | | 6 pole | AP-6-12 |
| | | | | 8 pole | AP-8-12 |
| | | | AP Female cable connector, Machined contacts, Thermoplastic Black shell. | 4 pole | AP-4-11 |
| | | | | 5 pole | AP-5-11 |
| | | | | 6 pole | AP-6-11 |
| | | | | 8 pole | AP-8-11 |
| | | | AP Male chassis mount, Rectangular Flange, Machined contacts, Thermoplastic Black shell. | 4 pole | AP-4-22 |
| | | | | 5 pole | AP-5-22 |
| | | | | 6 pole | AP-6-22 |
| | | | | 8 pole | AP-8-22 |
| | | | AP Female chassis mount, Rectangular Flange, Machined contacts, Thermoplastic Black shell. | 4 pole | AP-4-21 |
| | | | | 5 pole | AP-5-21 |
| | | | | 6 pole | AP-6-21 |
| | | | | 8 pole | AP-8-21 |

STANDARD DATA EP/AP

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

¹⁾ Not suitable for domestic applications above 50V

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

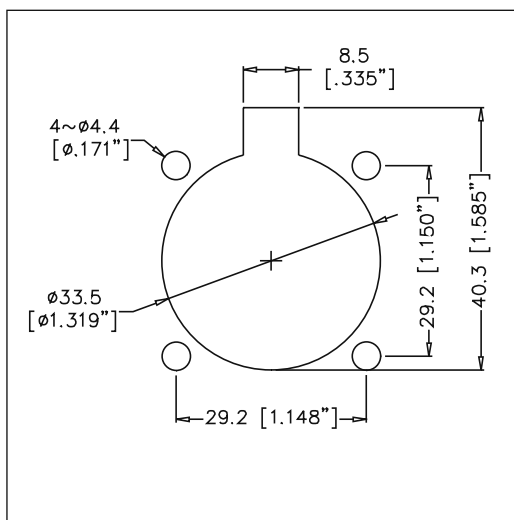
STANDARD DATA EP/AP (CONT'D)

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

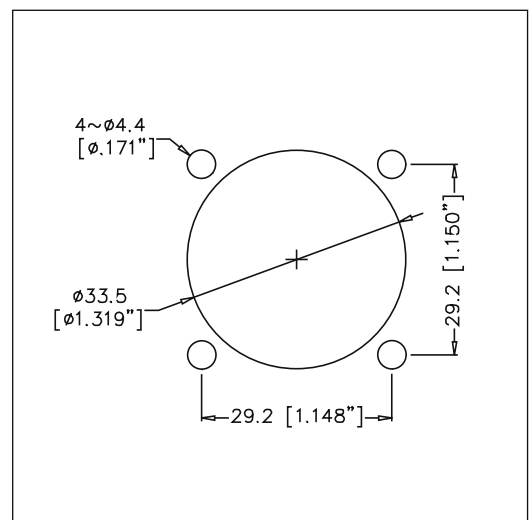
Rev 3 - 03/2013

EP/AP SERIES PANEL CUTOUT DATA - FRONT VIEW

EP 13/AP 13/AP 21



EP 14/AP 14/AP 22





HP SERIES

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



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

Features:

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



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

STANDARD DATA HP SERIES CONNECTORS

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

Rev 4 - 08/2016

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

Power Connectors

HPT Series



HPT SERIES

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


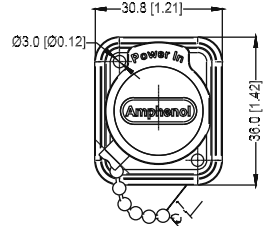

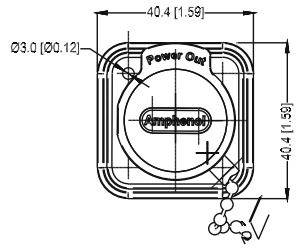

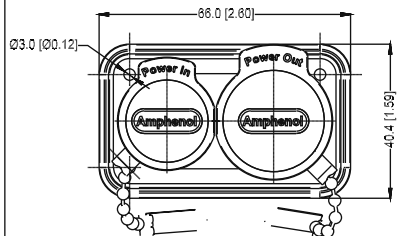

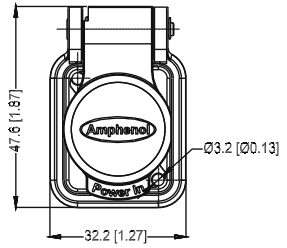

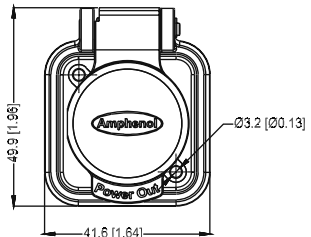

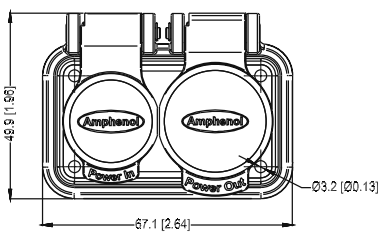

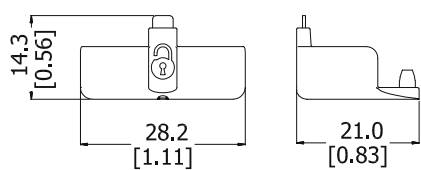


Features:

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

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

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

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

STANDARD DATA HPT SERIES CONNECTORS

| | | VALUE |
|-----------------------------------|--|---|
| GENERAL CHARACTERISTICS | Number of contacts | 2 + PE |
| | Termination - Cable Connector - Chassis Mount | 2mm Hex key screw terminal Flat Tab 1/4" |
| | Flammability | UL94V-0 |
| | Environmental | Complies with EU RoHS 2 Directive 2011/65/EU |
| ELECTRICAL CHARACTERISTICS | Rated Operating Voltage | 250VAC |
| | Test Voltage AC RMS | 1500V |
| | Current carrying capacity | 16A (20A USA) |
| | Typical Contact Resistance | ≤2mΩ |
| | Insulation Resistance (initial) | ≥2GΩ |
| | Insulation Resistance (after damp heat test) | ≥0.1GΩ |
| | Breaking Cycles | 5000 |
| CLIMATIC CHARACTERISTICS | Protection Class | IP65, UL50E enclosure type 4 (in mated or in combination with protective caps) |
| | Operating Temperature | -25 °C to +80 °C (-13°F to +176°F) |
| MECHANICAL CHARACTERISTICS | Weight** - Chassis Connector - Cable Plug | 15g (0.033lb) / 25g (0.055lb) 40g (0.088lb) |
| | Typical Cable retention force | Subject to cable material and O.D. |
| | Cable O.D range | 6.0 -12.0 mm with lockable backshell 7.5 -16.0 mm with non-lockable backshell |
| | Conductor Size - Screw Terminals | 2.5mm ² (AWG12) |
| | Mating Cycles | 5000 |
| | | |
| MATERIALS | Connector Shell / Finish | PA66 GF30 / Black |
| | Insulators | PA66 GF30 |
| | Cable Boot / Backshell | Neoprene / PBT |
| | Contact Plug - Material / Plating | Copper Alloy / Silver |
| | Contact Chassis - Material / Plating | Copper Alloy / Silver |
| | Protective Caps - Base - Overmolded Cap - Chain | Santoprene, UV resistant PA66 & Santoprene, UV resistance Stainless Steel SS304 |
| | Protective Caps (Self closing) - Base - Overmolded Cap - Gasket - Spring | Polycarbonate, UV resistant Polycarbonate & Santoprene, UV resistant Silicone Rubber Stainless Steel SS304 |
| | | |

Rev 5 - 03/2023

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

AMPHE-DANTE ADAPTERS

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

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



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

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

Available Software Options (required)

Dante Controller

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

Dante Via

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

Dante Virtual Soundcard

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

Dante Controller



All software can be purchased and downloaded at amphenolaudio.com/products/dante

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

Data Connectors

Amphe-Dante Adapters



Features:

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

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

SPECIFICATIONS

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

Rev 4 - 09/2018

LED STATUS

LEFT LED RIGHT LED



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



XLRnet Connectors

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

Features

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

Options

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

Ordering Codes

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

Simple steps to guide you in using this catalogue

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



XLRNET SERIES CABLE CONNECTOR

Features/Benefits:


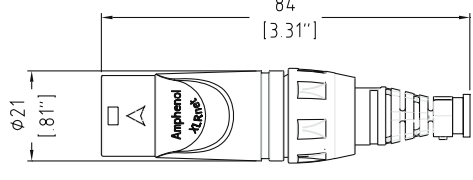

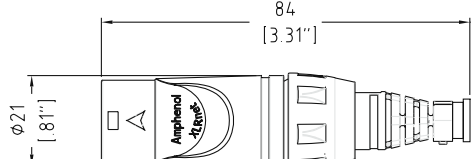
- XLR RJ45 Cable plug housing.
- Designed for pre-assembled RJ45 cables.
- Quick and simple installation.
- Cost effective method for harsh environments.
- No cabling in field required.
- No tools required for installation.
- Available in Nickel or Black housings.
- Coloured boots / Backshells

Specifications: Page 80

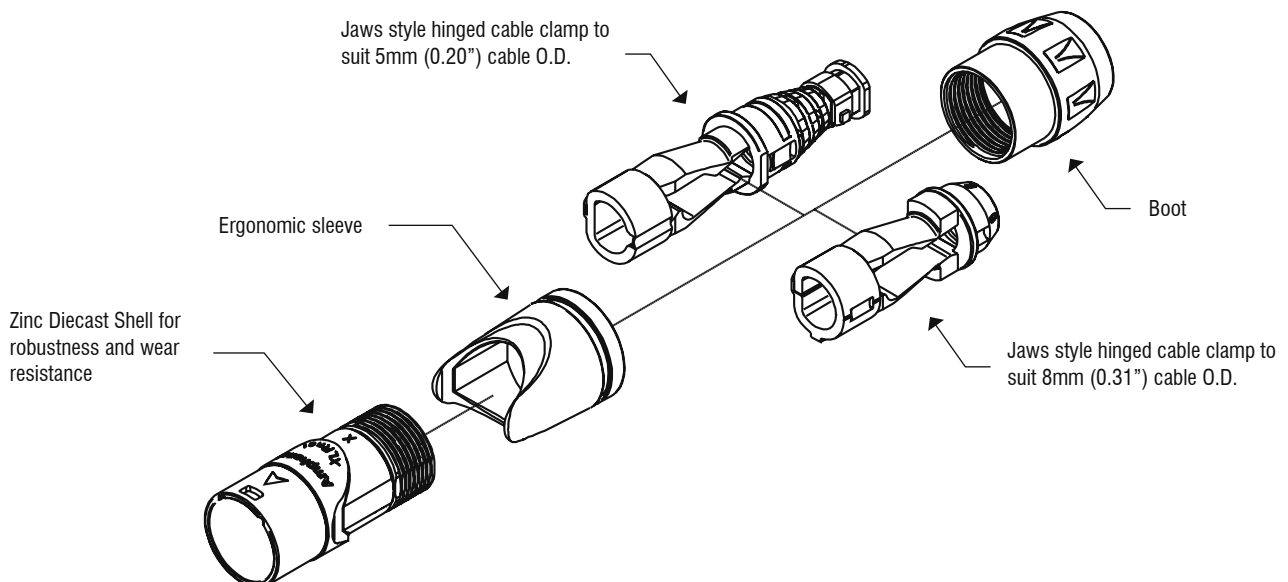
Part Number Breakdown : Page 80

Assembly Instructions: Page 81

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

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

ISO VIEW OF RJX8M



PART NUMBER BREAKDOWN

XLRnet SERIES

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

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

SERIES PREFIXCONTACT LAYOUTSGENDERSHELL FINISHPACKAGING

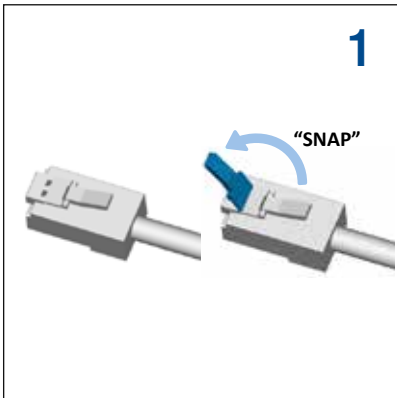
RJX8MBBULK

STANDARD DATA XLRnet SERIES

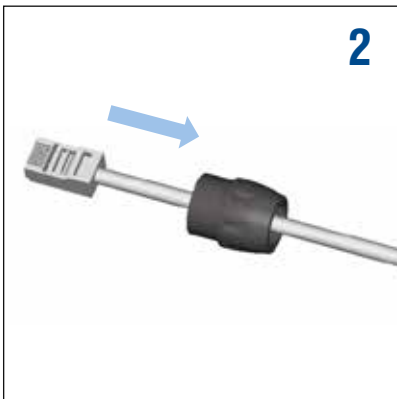
| | | VALUE |
|----------------------------|---|--|
| GENERAL CHARACTERISTICS | Termination | Preamsembled RJ45 Cable (Not supplied) |
| | Environmental | Complies with EU RoHS 2 Directive 2011/65/EU |
| CLIMATIC CHARACTERISTICS | Protection Class | IP40 |
| | Operating Temperature | -25°C to +75°C (-13°F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

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

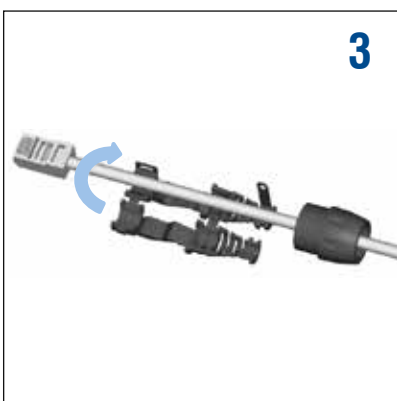
XLRnet SERIES CABLE ASSEMBLY INSTRUCTIONS



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



Slide the nut (backshell) onto the cable.



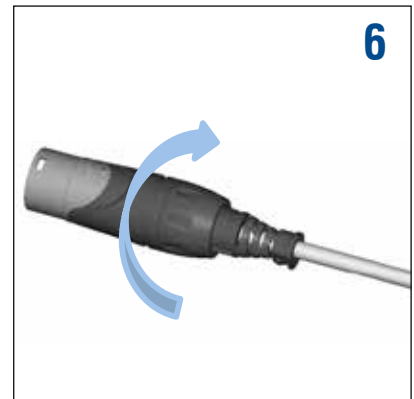
Install the cable clamp-boot.



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



Push clamp-boot & cable together into the shell



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

Data Connectors

XLrnet Series A & B Type Chassis Receptacles



XLrnet Series A & B Type Chassis Receptacles

Features:

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

Part Number Breakdown: Page 84

Specifications: Page 89

PCB Footprints: Page 88


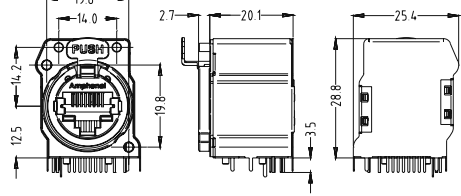

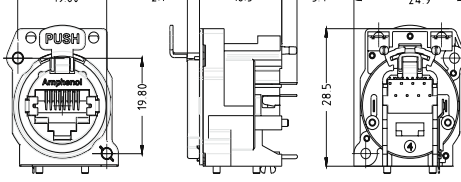

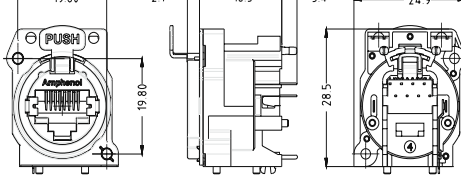

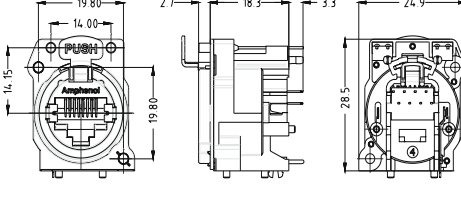

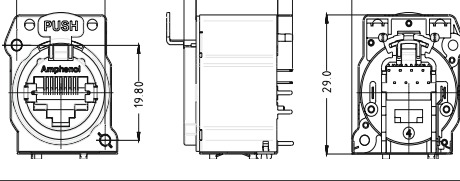
Recommended Fastener: Page 135

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

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

Data Connectors


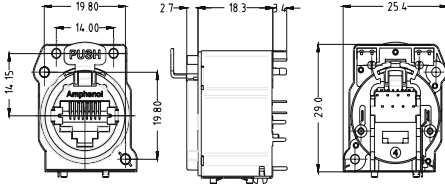
XLRnet Series A & B Type Chassis Receptacles

| PRODUCT - FIGURE | DRAWING | Dimensions in mm (inches) | DESCRIPTION | TYPE | LED* LHS/RHS | | PART NUMBER |
|---|---|---|---|---------|-----------------|---|------------------------------|
|  |  | 2.7 20.1 25.4 28.8 3.5 19.8 14.0 14.2 12.5 19.8 | XLRnet chassis, B type, Shielded Hood, LEDs, Horizontal PCB, Bulk packed | CAT5E | R | G | RJX8FB5HRGEB |
| | | | | | R | Y | RJX8FB5HRYEB |
| | | | | | R | R | RJX8FB5HRRRB |
| | | | | | G | R | RJX8FB5HGREB |
| | | | | | G | Y | RJX8FB5HGYEB |
| | | | | | U | U | RJX8FB5HUUEB |
| | | | | CAT6 | R | G | RJX8FB6HRGEB |
| | | | | | R | Y | RJX8FB6HRYEB |
| | | | | | R | R | RJX8FB6HRRRB |
| | | | | | G | R | RJX8FB6HGREB |
|  |  | 2.7 18.3 3.4 24.9 28.5 19.80 14.00 19.80 | XLRnet chassis, A type, Vertical PCB | Class D | - | - | RJX8FA3VB |
| | | | | CAT5E | | | RJX8FA5VB |
| | | | | CAT6 | | | RJX8FA6VB |
|  |  | 2.7 18.3 3.4 24.9 28.5 19.80 14.00 19.80 | XLRnet chassis, B Type, Vertical PCB | Class D | - | - | RJX8FB3VB |
| | | | | CAT5E | | | RJX8FB5VB |
| | | | | CAT6 | | | RJX8FB6VB |
|  |  | 2.7 18.3 3.3 24.9 28.5 19.80 14.00 14.15 19.80 | XLRnet chassis, B type, LEDs, Vertical PCB, Bulk packed | CAT5E | R | G | RJX8FB5VRGB |
| | | | | | R | Y | RJX8FB5VRYB |
| | | | | | R | R | RJX8FB5VRRB |
| | | | | | G | R | RJX8FB5VGRB |
| | | | | | G | Y | RJX8FB5VGYB |
| | | | | | U | U | RJX8FB5VUUB |
| | | | | CAT6 | R | G | RJX8FB6VRGB |
| | | | | | R | Y | RJX8FB6VRYB |
| | | | | | R | R | RJX8FB6VRRB |
| | | | | | G | R | RJX8FB6VGRB |
|  |  | 2.7 18.3 3.3 25.4 29.0 19.80 14.00 19.80 | XLRnet chassis, B type, Shielded Hood, Vertical PCB, Bulk packed | Class D | - | - | RJX8FB3VEB |
| | | | | CAT5E | | | RJX8FB5VEB |
| | | | | CAT6 | | | RJX8FB6VEB |

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

Data Connectors

XLRnet Series A & B Type Chassis Receptacles

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

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

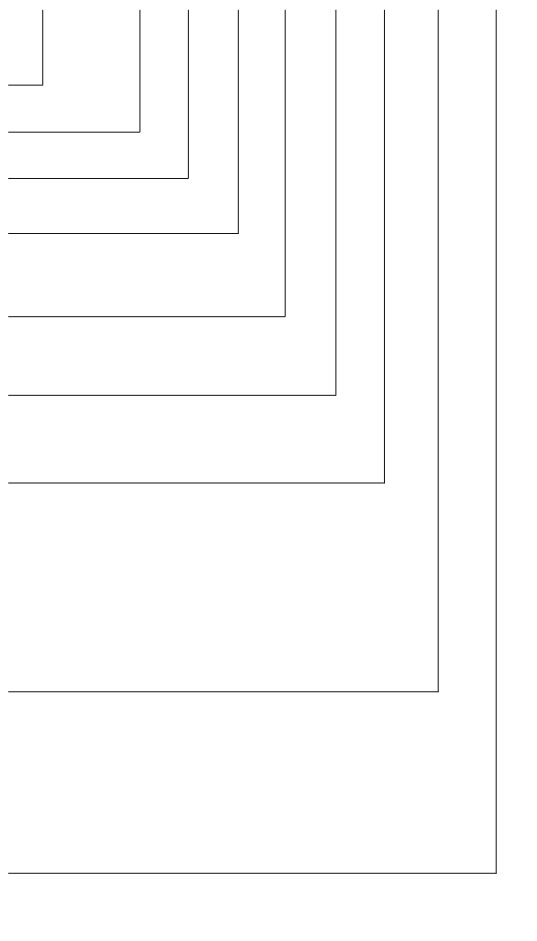
PART NUMBER BREAKDOWN

XLRnet A and B Type Printed Circuit Board Connectors

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

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

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



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



XLNET SERIES D TYPE CHASSIS RECEPTACLES

Features:

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

Part Number Breakdown: Page 87

Specifications: Page 89


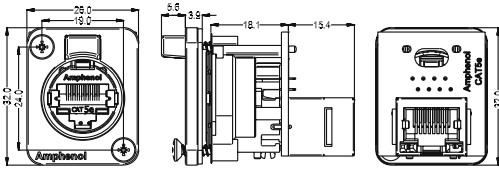

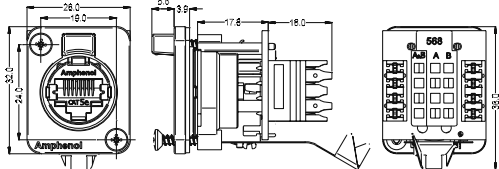

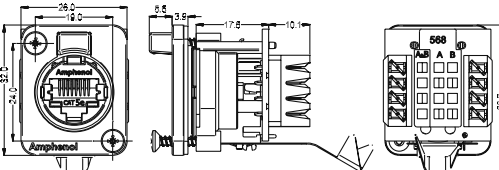

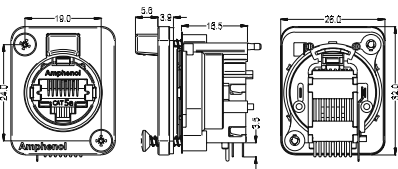

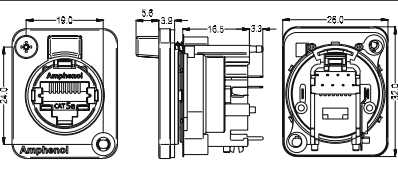

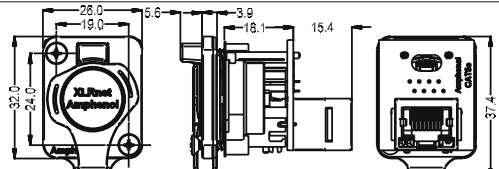

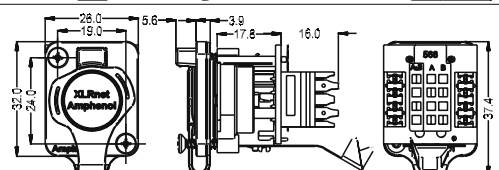

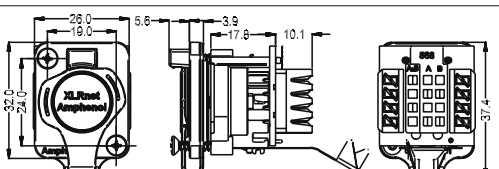

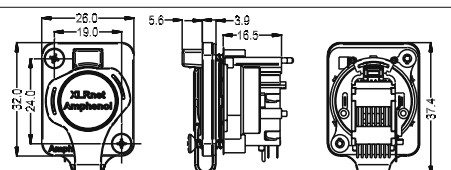

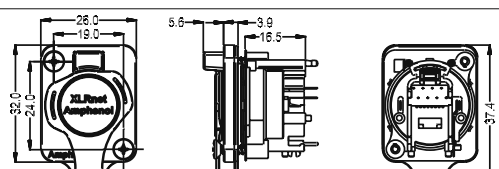
PCB Footprints: Page 88

Recommended Fastener: Page 135

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

Data Connectors

XLNet Series D Type Chassis Receptacles

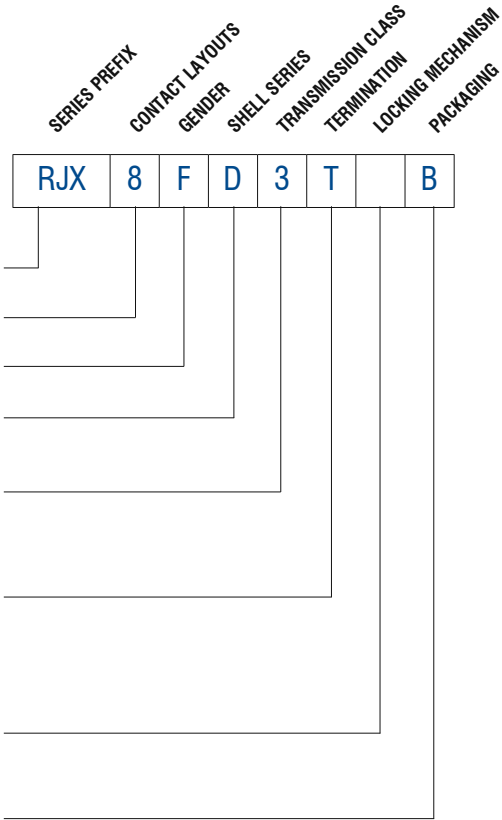
| PRODUCT - FIGURE | DRAWING | Dimensions in mm (inches) | DESCRIPTION | TYPE | PART NUMBER |
|---|---|---------------------------|---|---------|-----------------------------|
|  |  | | XLNet chassis, D type (IP54), Feedthrough, Nickel Finish | CAT5E | RJXS8FD5T |
|  |  | | XLNet chassis, D type (IP54), IDC Terminals, 110 type, Nickel Finish | CAT5E | RJXS8FD5110 |
| | | | | CAT6 | RJXS8FD6110 |
|  |  | | XLNet chassis, D type (IP54), IDC Terminals, Nickel Finish | CAT5E | RJXS8FD5I |
| | | | | CAT6 | RJXS8FD6I |
|  |  | | XLNet chassis, D type (IP54), Horizontal PCB, Nickel Finish | Class D | RJXS8FD3HB |
| | | | | CAT5E | RJXS8FD5HB |
| | | | | CAT6 | RJXS8FD6HB |
|  |  | | XLNet chassis, D type (IP54), Vertical PCB, Nickel Finish | Class D | RJXS8FD3VB |
| | | | | CAT5E | RJXS8FD5VB |
| | | | | CAT6 | RJXS8FD6VB |
|  |  | | XLNet chassis with Protective cap, D type (IP54), Feedthrough, Nickel Finish | CAT5E | RJXS8FG5T |
|  |  | | XLNet chassis with Protective cap, D type (IP54), IDC Terminals, 110 type, Nickel Finish | CAT5E | RJXS8FG5110 |
| | | | | CAT6 | RJXS8FG6110 |
|  |  | | XLNet chassis with Protective cap, D type (IP54), IDC Terminals, Nickel Finish | CAT5E | RJXS8FG5I |
| | | | | CAT6 | RJXS8FG6I |
|  |  | | XLNet chassis with Protective cap, D type (IP54), Horizontal PCB, Nickel Finish | Class D | RJXS8FG3HB |
| | | | | CAT5E | RJXS8FG5HB |
| | | | | CAT6 | RJXS8FG6HB |
|  |  | | XLNet chassis with Protective cap, D type (IP54), Vertical PCB, Nickel Finish | Class D | RJXS8FG3VB |
| | | | | CAT5E | RJXS8FG5VB |
| | | | | CAT6 | RJXS8FG6VB |

PART NUMBER BREAKDOWN

XLRnet D TYPE Chassis Connectors

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

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



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

[illegible][illegible]

Technical drawing of a mechanical part, likely a bracket or base plate, showing dimensions and features. The part has a central rectangular cutout with rounded corners (R2.3) and a central slot. Dimensions include overall width 116.0, overall height 15.00, and various hole diameters (4 x Ø17.0, 2 x Ø8.0, Ø12). Other dimensions include 3.6, 2.2, 2.54 (1 TYP), 12.7, 4.44, 6.60, 7.05, 5.61, and 16.85.

[illegible][illegible][illegible][illegible]

The diagram shows the front panel of the 1000BASE-T SFP. It features a central RJ45 port with a latch. Above the port, there are two small circular LEDs. The left LED is labeled 'LHS LED' and the right LED is labeled 'RHS LED'. The SFP has a metal housing and a series of pins at the bottom for connection to the switch.

Technical drawing of a circular part with the following dimensions and specifications:

- Overall diameter: $\phi 22.0$ MIN
- Top hole: $2 \times \phi 2.3$
- Bottom hole: $2 \times \phi 2.7$
- Top hole diameter: $\phi 2.3$
- Bottom hole diameter: $\phi 2.7$
- Top hole spacing: 14.00
- Bottom hole spacing: 19.80
- Top hole offset: 4.25
- Bottom hole offset: 19.80

Technical drawing of a circular panel cutout. The drawing shows a circle with a center point marked with a cross. A horizontal dimension line at the top indicates a distance of 19.0 [7.48"] from the left edge of the circle to the center of the cutout. A vertical dimension line on the right indicates a distance of 24.0 [9.45"] from the top edge of the circle to the center of the cutout. A diagonal line passes through the center of the circle. The cutout is a small circle located at the bottom right of the main circle. The distance from the bottom edge of the main circle to the center of the cutout is 24.0 [9.45"]. The distance from the right edge of the main circle to the center of the cutout is 19.0 [7.48"]. The cutout has a diameter of 2-83.5 [8.138"]. The main circle has a diameter of 24.0 [9.45"]. The center of the main circle is marked with a cross. The center of the cutout is marked with a cross. The text "Panel cutout Centre Line" is written below the drawing.

Technical drawing of a circular panel cutout. The drawing shows a circle with a diameter of $\phi 22.00$ [0.866"]. Two small circles, each with a diameter of $2 \sim \phi 2.70$ [0.106"], are positioned on the left and right sides of the main circle. The distance from the center of the main circle to the center of each small circle is 19.80 [0.780"]. The text "Panel cutout CL" is written below the drawing.

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STANDARD DATA XLRnet CHASSIS RECEPTACLES

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

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

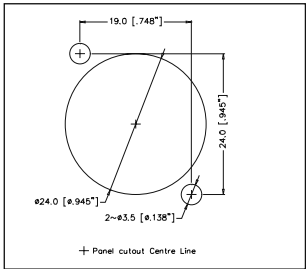
Rev 4 - 11/2021



USB/HDMI SERIES

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

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



PANEL CUTOUT DIMENSIONS
FRONT VIEW

AC-****

USB/HDMI TECHNICAL DATA

| | | VALUE | |
|-----------------------------------|---|--|----------|
| GENERAL CHARACTERISTICS | Type | USB 3.0 | HDMI 2.0 |
| | Termination | Thru-adaptor | |
| | Max. Wire Gauge - Stranded Wire | AWG 14 - 2.5mm ² | |
| | Flammability rating of insulating plastics | UL94V-0 | |
| | Solderability, complies with | IEC 68-2-20 | |
| | Environmental | Complies with EU RoHS 2 Directive 2011/65/EU | |
| ELECTRICAL CHARACTERISTICS | Current Carrying Capacity | 10A (Depends on Mating Connector) | |
| | Typical Contact Resistance | ≤10mΩ (Depends on Mating Connector) | |
| | Insulation resistance (initial) After Damp Heat Test | >2GΩ ≥ 10 ⁹ Meg Ω | |
| | Dielectric Strength | 1500 V dc | |
| CLIMATIC CHARACTERISTICS | Protection Class | IP40 | |
| | Operating Temperature | -25°C to +75°C (-13°F to +167°F) | |
| MECHANICAL CHARACTERISTICS | Insertion and Withdrawal Force | ≥10N - ≤30N (depends on mating connector) | |
| | Cable O.D. | 3mm to 7mm (0.118" to 0.275") | |
| | Mechanical Operations | 1000 mating cycles | |
| | Weight - Cable Mount - Panel Mount | 18g (0.039lb) 30g (0.066lb) | |
| | | | |
| MATERIALS | Connector Shell Material (Plugs) | Diecast Zinc Alloy EZDA No.3 | |
| | Connector Shell Finish | Satin Nickel or Coloured Polyester | |
| | Insulators | PA66 | |
| | Cable Bushing | Thermoplastic Polyurethane | |
| | Contacts | Brass Alloy | |
| | Plating | Gold Flash | |

Rev 2 - 03/2021

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



1/4" PHONE CONNECTORS

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

Applications

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

PRO RANGE 1/4" Phone Plug T-Series

Features / Options

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

PRO RANGE 1/4" Phone Plug Q-Series

Features / Options

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

MUSICIAN RANGE 1/4" Phone Plug

Features / Options

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

Jaws Cable Clamp Options for T-Series*



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



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

*Note: Applicable to T-Series straight cable connectors only. Refer to page 102 for right angle connector Jaws cable clamp specifications.

Chuck Clamp for Q-Series



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

Musician Range Cable Clamp Options



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



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

Ordering Codes

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

Simple steps to guide you in using this catalogue

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

1/4" PLUG FEATURE MATRIX

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

¹Custom Series - Minimum order quantities apply. Contact us for further details.

Plugs & Jacks

T Series Plugs



T SERIES PLUGS

Features:

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


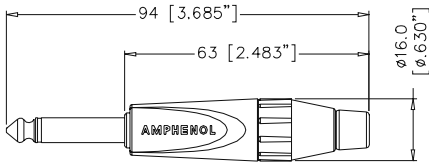

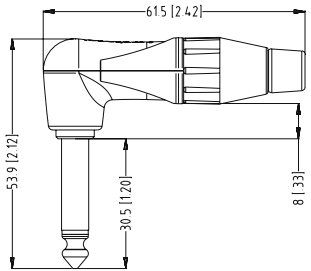

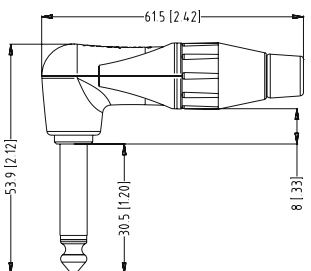

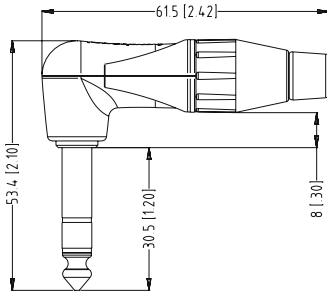

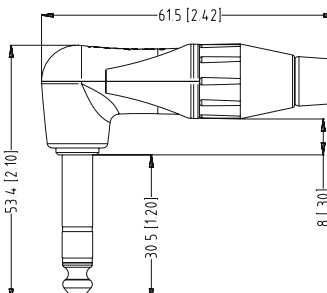
Options: Gold Contacts, Large or Small Jaws Cable Clamp, Black Shell, Metal Backshell / Boot, Bulk Pack. Coloured grommets (ordered separately)

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

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

Plugs & Jacks

T Series Plugs

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

*NOTE: Refer to page 102 for Jaws cable clamp specifications applicable to right angle connectors.

Plugs & Jacks

T Series (Jumbo) Plugs



T SERIES (JUMBO) PLUGS

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 102](#)

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

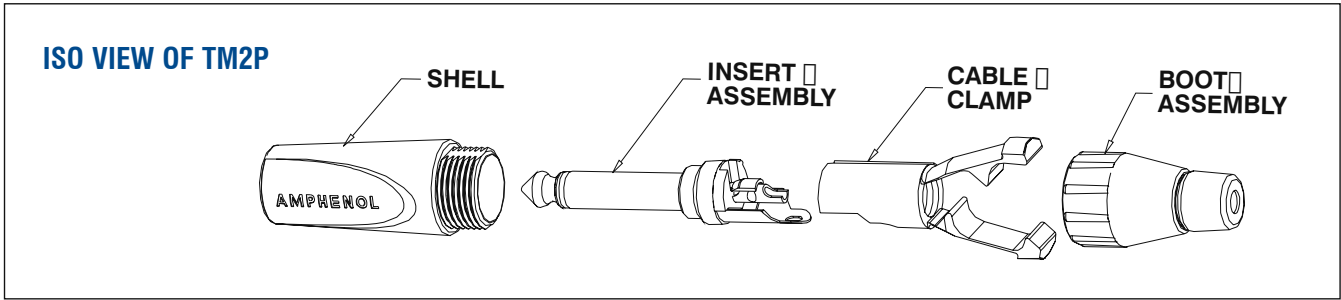
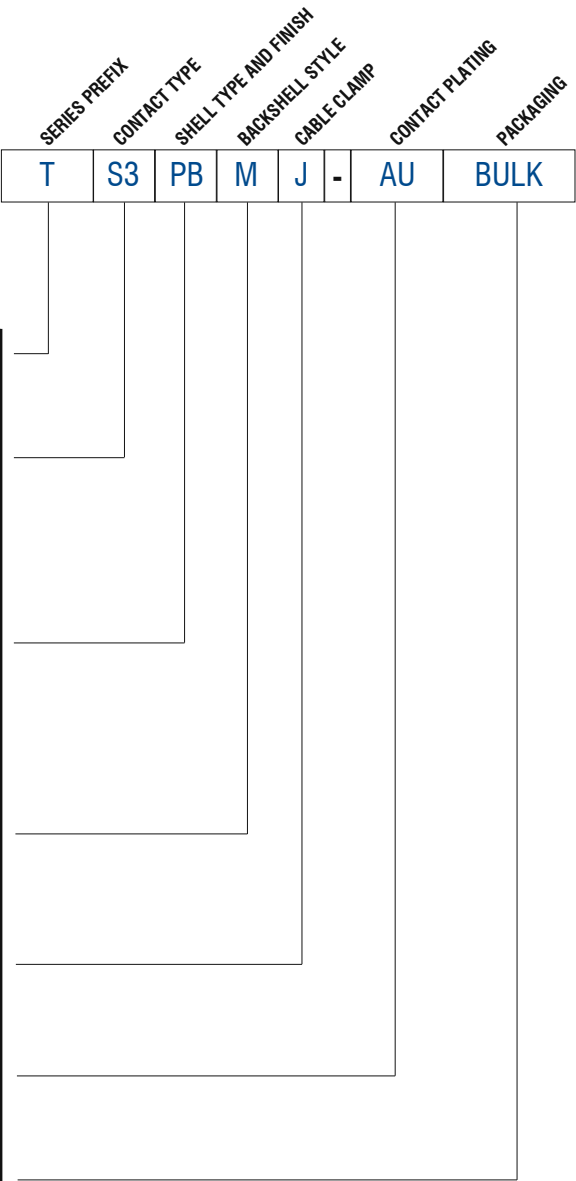
NOTE: Contact factory for availability of metal backshells.

PART NUMBER BREAKDOWN

T-SERIES (PRO RANGE)

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

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



Plugs & Jacks

T-Series SwitchPlug



T-SERIES SWITCHPLUG

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

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

Part Number Breakdown: Page 97
Specifications: Page 102

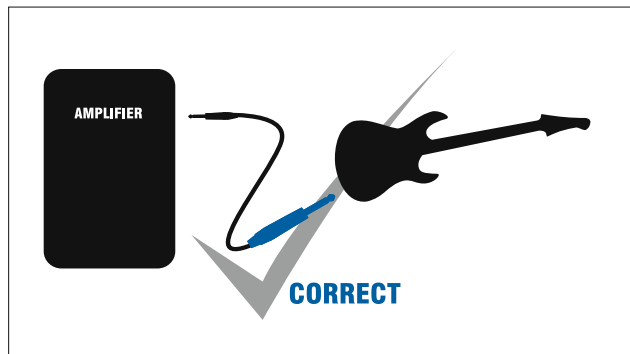
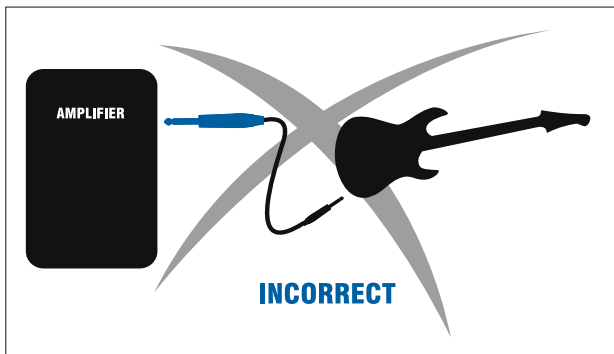
| PRODUCT - FIGURE | DRAWING | Dimensions in mm (inches) | DESCRIPTION | VARIATIONS | PART NUMBER |
|------------------|---------|---------------------------|---|-------------------------|-------------|
| | | | 1/4" (6.35mmø) Switch Phone plug, Jaws cable clamp, Thermoplastic backshell, Satin finish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

*NOTE: Refer to page Page 102 for Jaws cable clamp specifications applicable to right angle connectors.

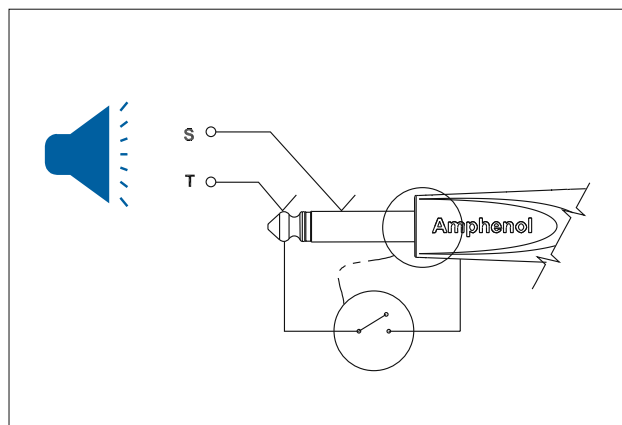
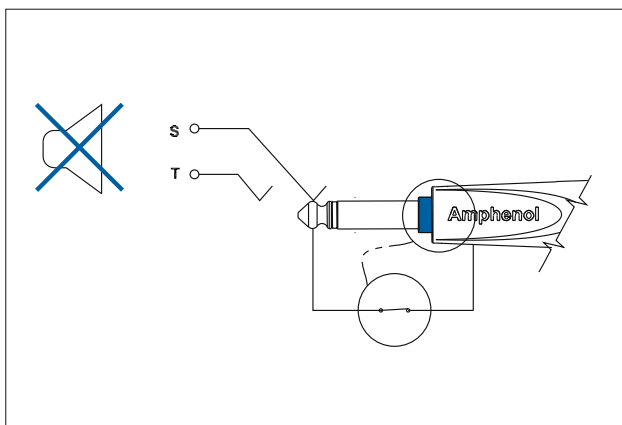
SwitchPlug - User Instruction



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



SwitchPlug - Technology*



*US Patent No. 8,162,697

Plugs & Jacks

Q Series Plugs



Q SERIES PLUGS

Features:

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

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


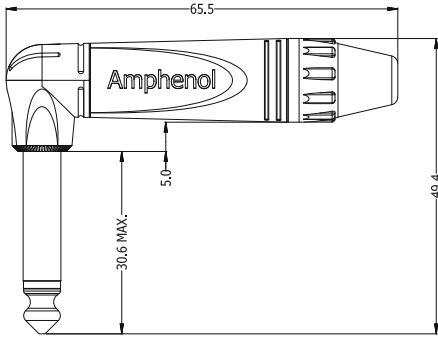


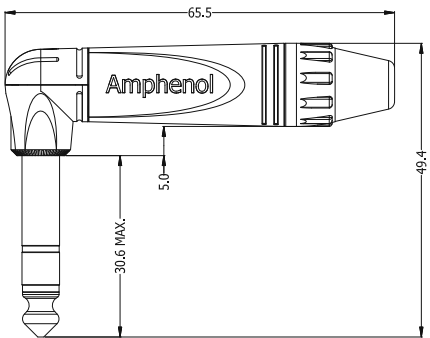

Specifications: [Page 102](#)

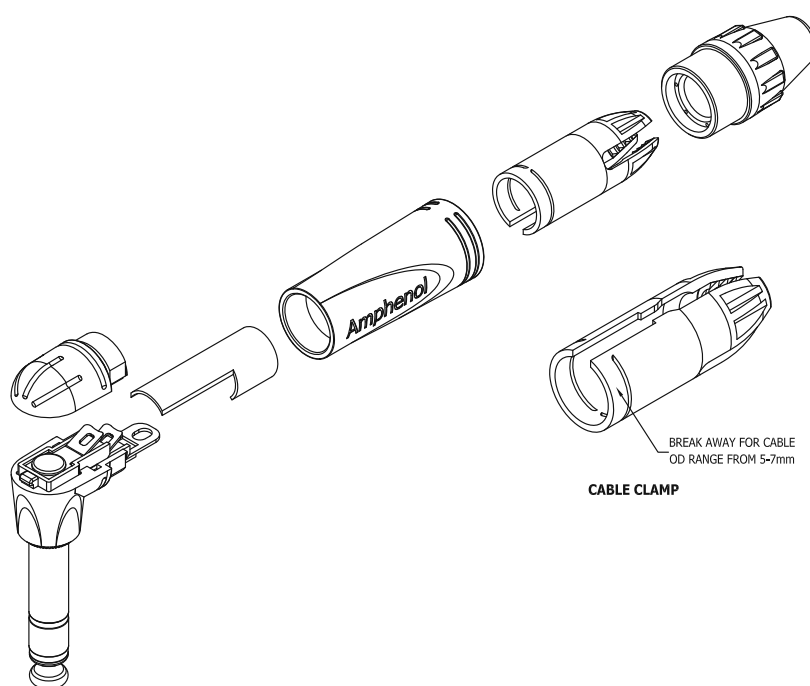
Clamp Info:



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

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

| PRODUCT - FIGURE | DRAWING | DESCRIPTION | VARIATIONS | PART NUMBER |
|---|--|---|-------------------------|-------------|
|  |  | 1/4" (6.35mmø) Mono Phone plug, Right angle Chuck cable clamp, Molded boot, Satin Finish | Standard | QM2R |
|  | | 1/4" (6.35mmø) Mono Phone plug, Right angle Chuck cable clamp, Molded boot, Black Finish | Gold Plated Contacts | QM2RB-AU |
|  |  | 1/4" (6.35mmø) Stereo Phone plug, Right angle Chuck cable clamp, Molded boot, Satin Finish | Standard | QS3R |
|  | | 1/4" (6.35mmø) Stereo Phone plug, Right angle Chuck cable clamp, Molded boot, Black Finish | Gold Plated Contacts | QS3RB-AU |



1/4" PHONE PLUG TECHNICAL DATA

| | | VALUE | | |
|----------------------------|--|--|--|---|
| | | Straight | Right Angle | Jumbo |
| GENERAL CHARACTERISTICS | Number of Contacts | 3 Pole Tip Ring Sleeve (Stereo) | | |
| | Termination | Solder | | |
| | Max. Wire Gauge - Stranded Wire | 2 Pole (Mono): AWG 16 - 1.5mm 3 Pole (Stereo): AWG 18 - 1mm | | |
| | Flammability rating of insulating plastics | UL94V-0 | | |
| | Solderability, complies with | IEC 68-2-20 | | |
| | Environmental | Complies with EU RoHS 2 Directive 2011/65/EU | | |
| ELECTRICAL CHARACTERISTICS | Current Carrying Capacity | 10A (Depends on Mating Connector and Cable) | | |
| | Typical Contact Resistance | Depends on Mating Connector | | |
| | Insulation Resistance (initial) | >2GΩ | | |
| | After Damp Heat Test | ≥1GΩ | | |
| | Dielectric Withstand Voltage | 2 Pole : 1.5 kV dc 3 Pole : 1 kV dc | | |
| CLIMATIC CHARACTERISTICS | Protection Class | IP40 | | |
| | Operating Temperature | -25°C to +75°C (-13°F to + 167°F) | | |
| MECHANICAL CHARACTERISTICS | Insertion and Withdrawal Force | | ≥10N - ≤30N | |
| | Weight ¹ | Thermoplastic Backshell | 28g (0.061lb) | |
| | | Metal Backshell | 35g (0.077lb) | |
| | Typical Cable Retention Force | | 22kg to 44kg (50lb to 100lb) - Dependent on cable material and diameter. | |
| | Cable O.D. | Standard Jaw (T-Series) | 3mm to 6mm (0.118" to 0.236") | 3mm to 5.5mm (0.118" to 0.216") N/A |
| | | Large Jaw (T-Series) | 6mm to 7mm (0.236" to 0.275") | 5.5mm to 6.5mm (0.216" to 0.255") N/A |
| | | Standard Clamp (Q-Series) | 3.5mm to 7mm (0.137" to 0.275") | N/A N/A |
| | | Jumbo | NA | 7.5mm to 10.5mm (0.295" to 0.413") |
| | Mechanical Operations | | 1000 | |
| MATERIALS | 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 ³⁹ Pb ³ | |
| | Cable Clamp | | UL94 V-0 PBT Modified PPO Resin - Black | |
| | Cable Bushing | | Santoprene | |
| | Contacts / Plating | | Brass/Ni or Au over 2μm Ni | |

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

Rev 6 - 10/2017



MUSICIAN SERIES II PLUGS

Features:

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

Clamp Info:



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

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


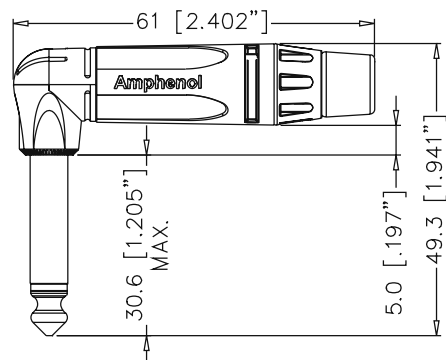

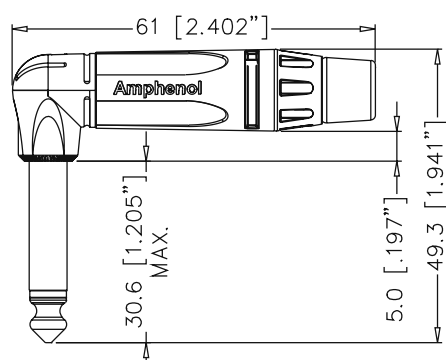

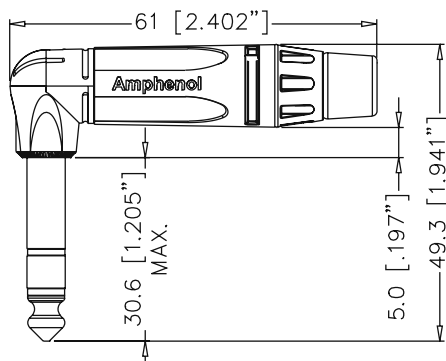

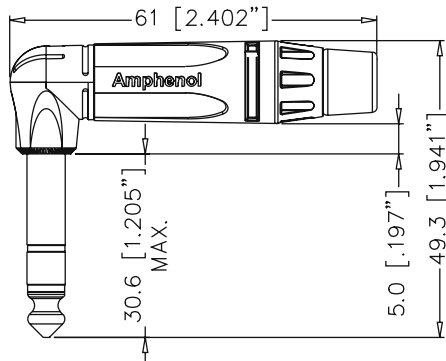
Specifications: [Page 112](#)

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

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

Plugs & Jacks

Musician Series II Plugs

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

Plugs & Jacks

Musician Series II Plugs



Features:

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

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

Specifications: Page 116

Clamp Info:







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

| PRODUCT - FIGURE | DRAWING | Dimensions in mm (inches) | DESCRIPTION | VARIATIONS | PART NUMBER |
|------------------|---------|--|--|----------------------|--------------|
| | | 79 [3.115"] 49 [1.922"] ø13.8 [ø.543"] | 1/4" (6.35mmø) Mono Phone plug, Diecast Shell, Satin finish, Flexible grommet. | Standard | ACPM-GN |
| | | | | Gold Plated Contacts | ACPM-GN-AU |
| | | | | Bulk Pack | ACPM-GN BULK |
| | | 79 [3.115"] 49 [1.922"] ø13.8 [ø.543"] | 1/4" (6.35mmø) Mono Phone plug, Diecast Shell, Black finish, Flexible grommet. | Standard | ACPM-GB |
| | | | | Gold Plated Contacts | ACPM-GB-AU |
| | | | | Bulk Pack | ACPM-GB BULK |
| | | 79 [3.115"] 49 [1.922"] ø13.8 [ø.543"] | 1/4" (6.35mmø) Stereo Phone plug, Diecast Shell, Satin finish, Flexible grommet. | Standard | ACPS-GN |
| | | | | Gold Plated Contacts | ACPS-GN-AU |
| | | | | Bulk Pack | ACPS-GN BULK |
| | | 79 [3.115"] 49 [1.922"] ø13.8 [ø.543"] | 1/4" (6.35mmø) Stereo Phone plug, Diecast Shell, Black finish, Flexible grommet. | Standard | ACPS-GB |
| | | | | Gold Plated Contacts | ACPS-GB-AU |
| | | | | Bulk Pack | ACPS-GB BULK |

Plugs & Jacks

Musician Series II Plugs

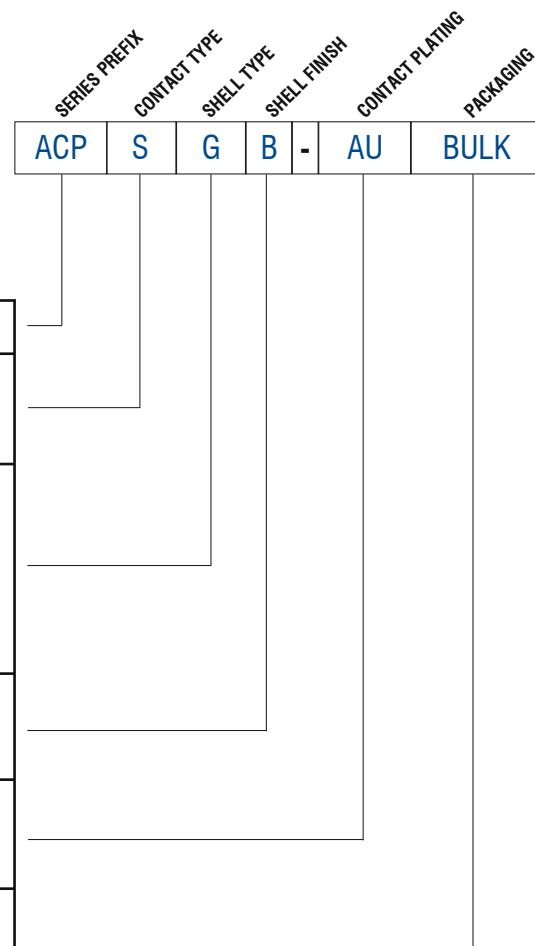
| PRODUCT - FIGURE | DRAWING | DESCRIPTION | TYPE | PART NUMBER |
|--|---------|---|---------------|--------------|
|  | | 1/4" (6.35mmø) Mono Phone plug, Right angle, Diecast Shell, Satin finish, Flexible grommet. | Standard | ACPM-RN |
| | | | Gold contacts | ACPM-RN-AU |
| | | | Bulk Pack | ACPM-RN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

PART NUMBER BREAKDOWN

M / M SERIES II (MUSICIAN RANGE)

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

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



Plugs & Jacks

1/4" / 3.5mm Phone Jack Connectors



1/4" / 3.5MM PHONE JACK CONNECTORS

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

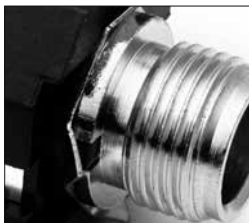
Applications

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

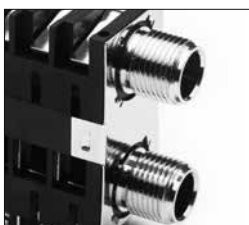
Features / Options – OEM RANGE Phone Jack

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

1/4" Phone Jack Grounding/ Shielding Options



1/4" Gripper - Grounding points



1/4" Shielding Plate

Ordering Codes

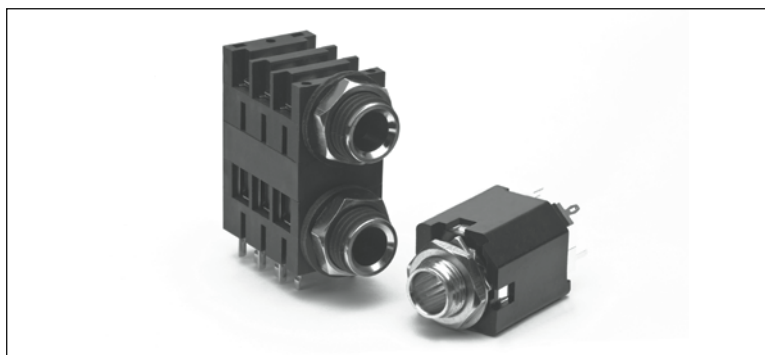
We have listed the more common ordering codes in each section. Please contact us if you need any further assistance.

Simple steps to guide you in using this catalogue

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

Plugs & Jacks

1/4" / 3.5mm Phone Jack Connectors



Features:

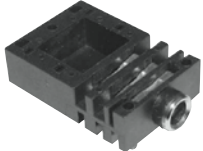
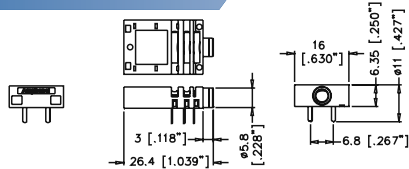

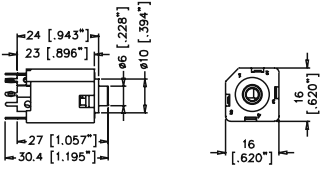

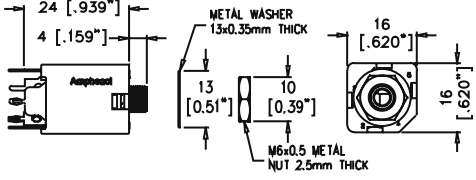

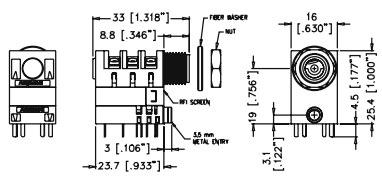
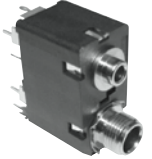
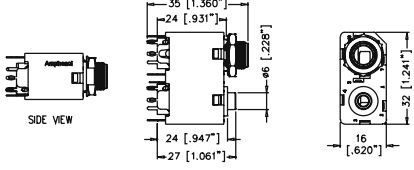
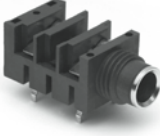
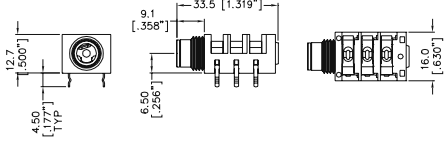
- 3.5mm and 6.35mm (1/4") options
- Mono or Stereo (TRS)
- Single or Dual mounting
- Vertical or Horizontal PCB mount
- Mono and Stereo with switching contacts
- Solder or Combo contacts
- Various mounting option

Schematic Chart: [Page 114](#)

Panel Cutouts: [Page 113](#)


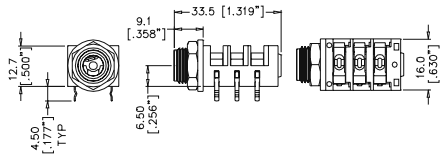

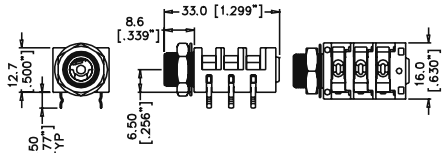

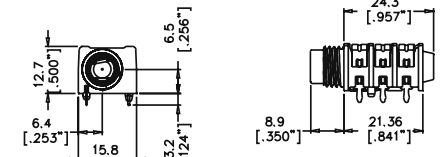

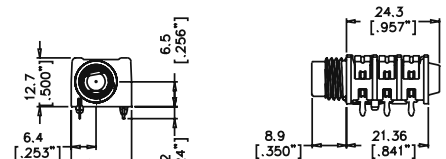

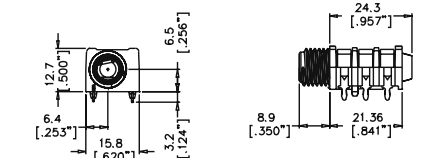

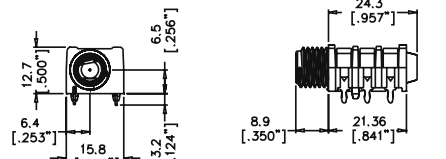

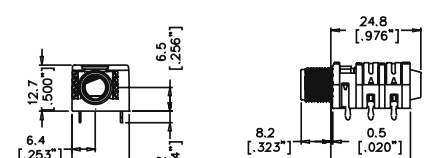

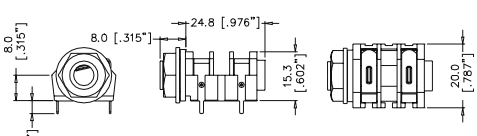
PCB Footprints: [Page 115](#)

Specifications: [Page 117](#)

| PRODUCT - FIGURE | DRAWING | DESCRIPTION | VARIATIONS | PART NUMBER |
|---|---|--|--------------------------------------|---|
| 3.5MM PHONE JACKS | | | | |
|  |  | 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 114 | ACJM-NV35-2 ACJM-NV35-2S ACJS-NV35-3 ACJS-NV35-3S ACJS-NV35-5 |
|  |  | 3.5mm Jack, Vertical PCB mount, Needle eye contacts, Plastic housing, Metal thread and entry bore | Refer to Schematic Chart on page 114 | ACJM-MV35-2 ACJM-MV35-2S ACJS-MV35-3 ACJS-MV35-3S ACJS-MV35-5 |
|  |  | 3.5mm / 1/4" (6.35mm) Dual Phone Jack, (Piggyback), Horizontal PCB, Plastic housing, Metal nut and entry bore | Mono | ACJM-MHD985 |
| | | | Stereo | ACJS-MHD985 |
|  |  | 3.5mm / 1/4" (6.35mm) Dual Phone Jack, Vertical PCB mount, Needle eye contacts, Plastic housing, Metal nut and entry bore | Refer to Schematic Chart on page 114 | ACJM-MVD985-2 ACJM-MVD985-2S ACJS-MVD985-3 ACJS-MVD985-3S ACJS-MVD985-5 |
| 1/4" PHONE JACKS HORIZONTAL | | | | |
|  |  | 1/4" (6.35mm) Phone Jack, Horizontal Snap-fit PCB, Plastic housing, Half thread, Metal entry bore. Supplied without mounting hardware. | Mono | ACJM-HHDR |
| | | | Stereo | ACJS-HHDR |


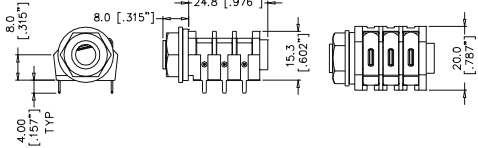

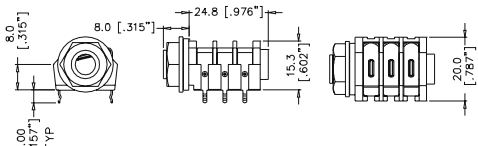

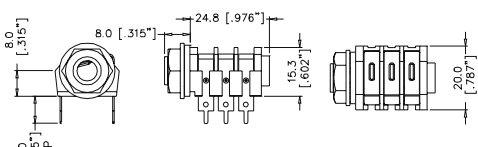

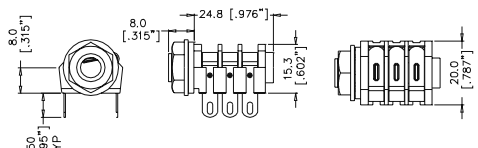

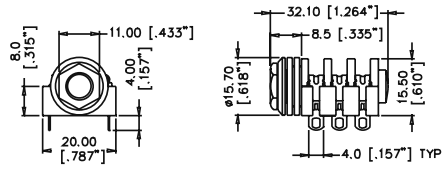

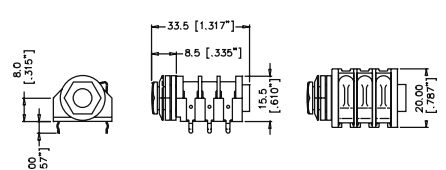

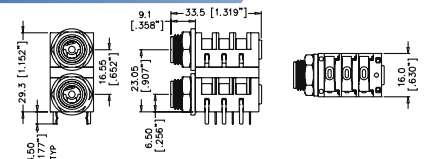

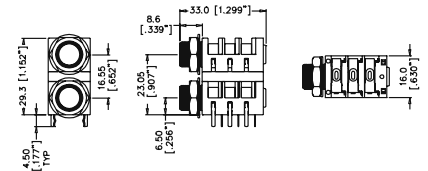
Plugs & Jacks

1/4" / 3.5mm Phone Jack Connectors

| PRODUCT - FIGURE | DRAWING | Dimensions in mm (inches) | DESCRIPTION | VARIATIONS | PART NUMBER |
|---|---|---------------------------|--|--------------------------------------|-------------|
|  |  | | 1/4" (6.35mmø) Phone Jack, Horizontal Snap-fit PCB, Plastic housing, Metal nut and entry bore | Mono | ACJM-MHDR |
| | | | | Stereo | ACJS-MHDR |
|  |  | | 1/4" (6.35mmø) Phone Jack, Horizontal Snap-fit PCB, Plastic housing, Metal thread, nut, washer and entry bore | Mono | ACJM-MHDM |
| | | | | Stereo | ACJS-MHDM |
|  |  | | 1/4" (6.35mmø) Offset Jack, Horizontal PCB mount, Plastic housing and entry bore with Half thread. Supplied without mounting hardware. | Refer to Schematic Chart on page 114 | ACJM-HHOP |
| | | | | | ACJS-HHOP |
|  |  | | 1/4" (6.35mmø) Offset Jack, Horizontal PCB mount, Plastic housing and entry bore with Half thread. Supplied without mounting hardware. | Refer to Schematic Chart on page 114 | ACJM-HHOP-1 |
| | | | | | ACJS-HHOP-1 |
|  |  | | 1/4" (6.35mmø) Offset Jack, Horizontal PCB mount, Plastic housing, thread and entry bore | Mono - Plastic Nut | ACJM-PHOP |
| | | | | Mono - Metal Nut | ACJM-MHOP |
| | | | | Stereo - Plastic Nut | ACJS-PHOP |
| | | | | Stereo - Metal Nut | ACJS-MHOP |
|  |  | | 1/4" (6.35mmø) Offset Jack, Horizontal PCB mount, Plastic housing, thread and entry bore. Non-switching sleeve contact with separate grounding to panel. | Refer to Schematic Chart on Page 110 | ACJM-PHOP-1 |
| | | | | PHOP - Denotes Plastic Nut | ACJM-MHOP-1 |
| | | | | MHOP - Denotes Metal Nut | ACJS-PHOP-1 |
| | | | | | ACJS-MHOP-1 |
|  |  | | 1/4" (6.35mmø) Offset Jack, Horizontal PCB mount, Plastic housing, Metal thread and entry bore with Chassis ground connection | Mono - Metal Nut | ACJM-MHOM |
| | | | | Stereo - Metal Nut | ACJS-MHOM |
|  |  | | 1/4" (6.35mmø) Jack, Horizontal PCB mount, Plastic housing with metal insert | Mono - Plastic Nut | ACJM - PH |
| | | | | Mono - Metal Nut | ACJM - MH |


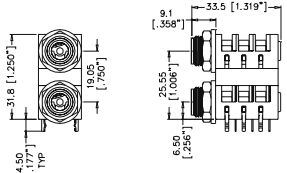
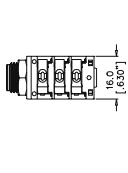
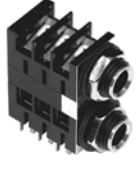
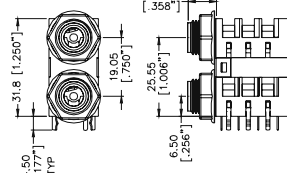
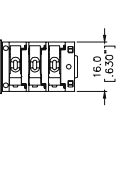

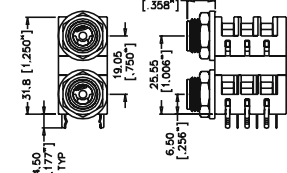
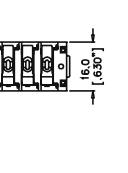

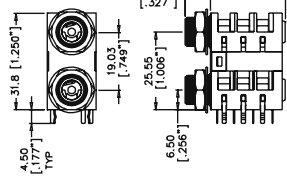
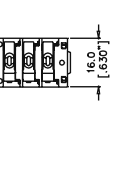

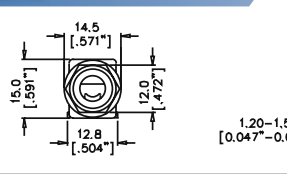
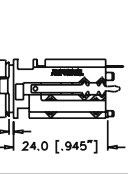

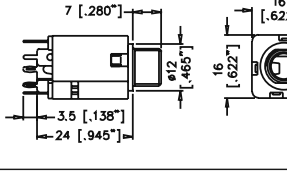
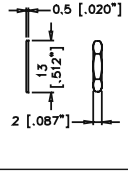

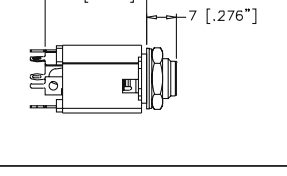
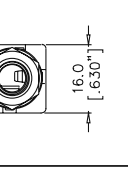

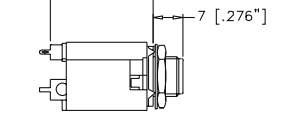
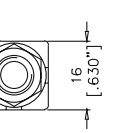
Plugs & Jacks

1/4" / 3.5mm Phone Jack Connectors



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

Plugs & Jacks

1/4" / 3.5mm Phone Jack Connectors

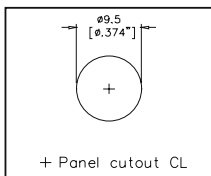
| PRODUCT - FIGURE | DRAWING | Dimensions in mm (inches) | DESCRIPTION | VARIATIONS | PART NUMBER |
|---|---|---|--|--------------------------------------|-------------|
|  |  |  | 1/4" (6.35mmØ) Dual Phone Jack (Piggyback) Horizontal Snap-fit PCB, Plastic housing, Metal nut and entry bore | Mono | ACJM-MHD |
| | | | | 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 114 | ACJM-PVB-2 |
|  |  |  | ACJM-PVB-2S | | |
| | | | ACJS-PVB-3 | | |
| | | | ACJS-PVB-3S | | |
| | | | ACJS-PVB-5 | | |
| | | | 1/4" PHONE JACKS VERTICAL | | |
|  |  |  | ACJM-MIV-2S | | |
| | | | ACJS-MIV-3 | | |
| | | | ACJS-MIV-3S | | |
| | | | ACJS-MIV-5 | | |
| | | | 1/4" PHONE JACKS VERTICAL | | |
|  |  |  | ACJS-MN-3 | | |
| | | | ACJM-MN-2S | | |
| | | | ACJS-MN-3S | | |
| | | | ACJS-MN-5 | | |
| | | | 1/4" PHONE JACKS VERTICAL | | |
|  |  |  | ACJM-MV-2S | | |
| | | | ACJS-MV-3 | | |
| | | | ACJS-MV-3S | | |
| | | | ACJS-MV-5 | | |

1/4" / 3.5mm Phone Jack Connectors

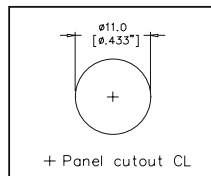
| PRODUCT - FIGURE | DRAWING | DESCRIPTION | VARIATIONS | PART NUMBER |
|---|---|--|---|--|
|  |  | 1/4" (6.35mmø) Jack, Solder Lug, Metal nut and insert | Refer to Schematic Chart on Page 110 | ACJM-MVS-2 ACJM-MVS-2S ACJS-MVS-3 ACJS-MVS-3S ACJS-MVS-5 |

PANEL CUTOUTS

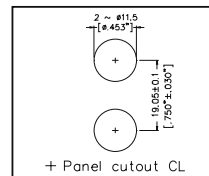
-FRONT VIEW



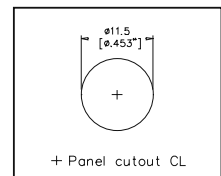
ACJM-MV
ACJS-MV
ACJM-MN-2
ACJS-MN-3
ACJM-MN-2S
ACJS-MN-3S
ACJS-MN-5
ACJM-MIV
ACJS-MIV
ACJM-MVS
ACJS-MVS



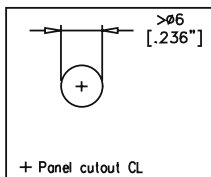
ACJM/S-PH
ACJM/S-MH
ACJM/S-PC
ACJM/S-MC
ACJM/S-PHR
ACJM/S-MHR
ACJM/S-PHS
ACJM/S-MHS



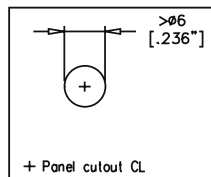
ACJM-MHD
ACJS-MHD
ACJM-MHDE
ACJS-MHDE



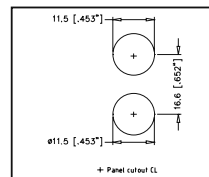
ACJM-MHDR
ACJS-MHDR
ACJS-HHDR



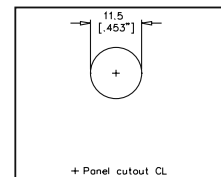
ACJM-NH35
ACJS-NH35



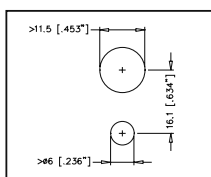
ACJM-NV35-2
 ACJM-NV35-2S
 ACJS-NV-35-3
 ACJS-NV-35-3S
 ACJS-NV-35-5
 ACJM-MV35-2
 ACJM-MV35-2S
 ACJS-MV-35-3
 ACJS-MV-35-3S
 ACJS-MV-35-5



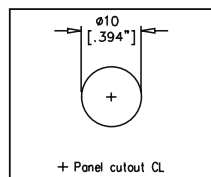
ACJS-MHDC
ACJM-MHDC



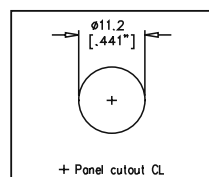
ACJS-IH
ACJM-IH
ACJS-IHS
ACJM-IHS



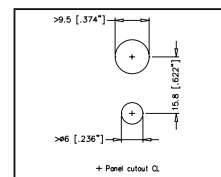
ACJS-MHD985
ACJM-MHD985



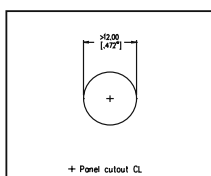
ACJS-MHOM
ACJM-MHOM



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



ACJS-MVD985
ACJM-MVD985



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

Plugs & Jacks

1/4" / 3.5mm Phone Jack Connectors

SCHEMATIC CHART

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

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

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

1/4" / 3.5mm Phone Jack Connectors

Technical drawing of a mechanical part with dimensions in inches and millimeters. The drawing shows a central circular feature with four small circles (1, 2, 3, 4) and a larger circle (5) around it. Dimensions are given in inches [mm].

Dimensions (inches [mm]):

- 6.38 [.251"]
- 0.56 [.022"]
- 6.38 [.251"]
- 6.38 [.251"]
- 0.56 [.022"]
- 6.38 [.251"]
- 2.40 [.094"]
- 4.67 [.184"]
- 2.40 [.094"]
- 4.67 [.184"]

Legend:

- Ø1.0mm(Ø.039")
- Ø2.0mm(Ø.078")

Technical drawing of a panel cutout. The drawing shows a rectangular panel with a central cutout. The dimensions are as follows:

- Top horizontal dimension: 8.15 [°.321°]
- Right vertical dimension: 5.0 [°.197°]
- Bottom right vertical dimension: 6.25 [°.246°]
- Bottom horizontal dimension: 16.3 [°.642°]
- Left vertical dimension: 6.25 [°.246°]
- Top left horizontal dimension: 8.15 [°.321°]

Below the drawing, the text reads: $\varnothing 1.5\text{mm} (9.059^\circ) + \text{Panel cutout CL}$

[illegible]

2 & 5 OPTIONAL PCB HOLES FOR STEREO VERSION

6.35 [250"]

16.3 [642"]

8.2 [321"]

6.35 [250"]

4.00 [157"]

$\varnothing 1.5\text{mm}(0.059") + \text{Panel cutout CL}$

[illegible]

Figure 10 is a technical drawing of the PCB layout (component side). It shows a rectangular board with a central panel cutout. The cutout is defined by a 6~ø1.50 [ø.059] hole pattern. The dimensions are as follows:

- Top edge: 11.43 [407]
- Bottom edge: 11.10 [437]
- Right edge: 4.75 [187]
- Left edge: 4.25 [165]
- Panel cutout CL: 17.45 [687]

The layout is labeled "PCB-Layout (component side)" and "Panel cutout CL".

+Panel cutout CL

PCB-Layout (component side)

9.15 [360"]
5.55 [219"]
2.65 [104"]
6~ø1.4 [ø.055"]
6.8 [268"]

PCB LAYOUT
component size
+ Panel cutout CL

115

Plugs & Jacks

1/4" / 3.5mm Phone Jack Connectors

1/4" PLUGS TECHNICAL DATA

| | | VALUE |
|-----------------------------------|---|--|
| GENERAL CHARACTERISTICS | Number of Contacts | 2 Pole (Mono) 3 Pole Tip Ring Sleeve (Stereo) |
| | Termination | Solder |
| | Max. Wire Gauge - Stranded Wire | 2 Pole (Mono): AWG 16 ~ 1.5mm ² 3 Pole (Stereo): AWG 18 ~ 1mm ² |
| | Flammability rating of insulating plastics | UL94V-0 |
| | Solderability, complies with | IEC 68-2-20 |
| | Environmental | Complies with EU RoHS 2 Directive 2011/65/EU |
| ELECTRICAL CHARACTERISTICS | Current Carrying Capacity | 10A (Depends on Mating Connector and Cable) |
| | Typical Contact Resistance | Depends on Mating Connector |
| | Insulation resistance (initial) After Damp Heat Test | > 2GΩ ≥ 1GΩ |
| | Dielectric Withstand Voltage | 2 Pole : 1.5 kV dc 3 Pole : 1 kV dc |
| CLIMATIC CHARACTERISTICS | Protection Class | IP40 |
| | Operating Temperature | -25°C to +70°C (-13°F to 158°F) |
| MECHANICAL CHARACTERISTICS | Insertion and Withdrawal Force | ≥ 10N - ≤ 30N |
| | Mating Cycles | Min. of 1000 cycles without any physical damage |
| | Cable O.D. - M Series - M Series II | 3mm to 6.5mm (0.118" to 0.256") 6.5mm to 8mm (0.256" to 0.315") |
| MATERIALS | 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) |

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

Rev 4 - 05/2014

1/4" JACKS TECHNICAL DATA

| | | VALUE |
|-----------------------------------|---|--|
| GENERAL CHARACTERISTICS | Number of Contacts | 2 Pole (Mono) 3 Pole Tip Ring Sleeve (Stereo) |
| | Termination | Solder, PCB or Combo |
| | Flammability rating of insulating plastics | UL94V-0 or UL94-HB |
| | Solderability, complies with | IEC 68-2-20 |
| | Environmental | Complies with EU RoHS 2 Directive 2011/65/EU |
| ELECTRICAL CHARACTERISTICS | Current Carrying Capacity | 10A (Depends on Mating Connector and Cable) |
| | Typical Contact Resistance | ≤10mΩ |
| | Insulation resistance (initial) After Damp Heat Test | >2GΩ ≥10 ³ Meg Ω |
| | Rated Voltage Test Voltage AC RMS: Dielectric Strength | 34V 500V |
| CLIMATIC CHARACTERISTICS | Protection Class | IP40 |
| | Operating Temperature | -25°C to +70°C (-13°F to 158°F) |
| MECHANICAL CHARACTERISTICS | Insertion and Withdrawal Force | ≥10N - ≤30N |
| | Mating Cycles | Min. of 10,000 cycles |
| | Weight - Straight - Right Angle | 18g (0.039lb) 25g (0.055lb) |
| | | |
| MATERIALS | Connector Housing | Nylon PA66 30% Glass Filled |
| | Metal Nut | Brass |
| | Plastic Nut | Nylon PA66 30% Glass Filled |
| | Washer | Fiber / Brass / Nylon PA66 30% Glass Filled |
| | Contact Plating | Tin - 4μm Min. over 2μm Min.Cu (Copper) Silver - 0.3μm Min. over 2μm Min.Cu (Copper) Nickel - 2μm Min. over 2μm Min.Cu (Copper) Gold Flash - 0.05μm Min. over 2μm Min.Cu (Copper) |
| | Contacts | Brass / Sn (Tin) over Cu (Copper) |

Rev 7 - 04/2023

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

Plugs & Jacks

K Series Plugs (3.5mm)








K SERIES PLUGS (3.5MM)

Features:

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

Options: Black Shell, Gold contacts.

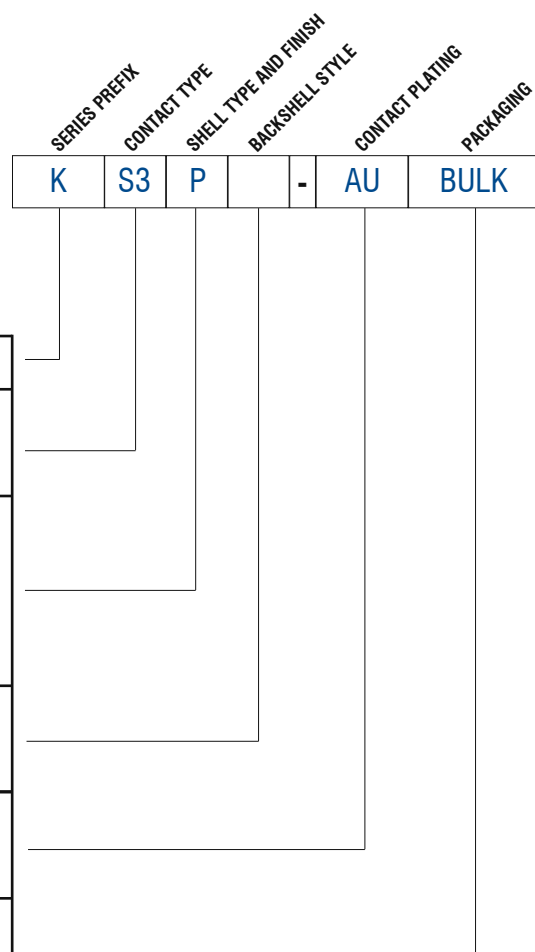
| PRODUCT - FIGURE | DRAWING | DESCRIPTION | VARIATIONS | PART NUMBER |
|---|---------|--|----------------------|-------------|
|  | | 3.5mm, Mono Phone plug, Diecast Shell, Satin finish, Flexible grommet. | Standard | KM2P |
| | | | Gold Plated Contacts | KM2P-AU |
| | | | Bulk Pack | KM2P BULK |
|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

PART NUMBER BREAKDOWN

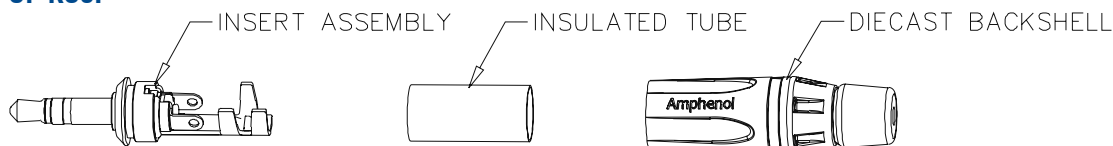
K-SERIES

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

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



ISO VIEW OF KS3P



Plugs & Jacks

K Series Plugs (3.5mm)

3.5mm PLUG TECHNICAL DATA

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

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



PLUGS AND SOCKETS

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

Applications

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

Features / Options – RCA Plugs and Jacks

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

Features / Options – Miniature XLR

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

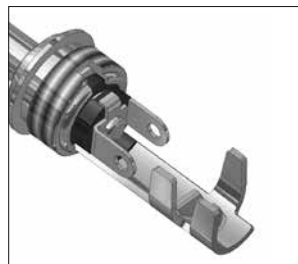
Features / Options – 3.5mm Plugs Phone Jack

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

Cable Clamp Options



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



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

Ordering Codes

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

Simple steps to guide you in using this catalogue

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

Plugs & Sockets

RCA Series








RCA SERIES


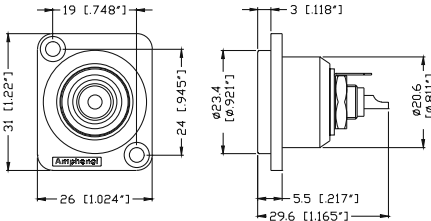
Features:

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

Part Number Breakdown: Page 123

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

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

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

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

PART NUMBER BREAKDOWN

M SERIES RCA

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

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

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

RCA TECHNICAL DATA

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

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

Rev 4 - 05/2014

MULTIPIN CONNECTORS



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

Applications

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

Features / Options - MP-41 Series

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

Features / Options - MP-62 Series

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

Ordering Codes

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

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

Multipin Connectors

MP-41 Series



MP-41 SERIES

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

Features:


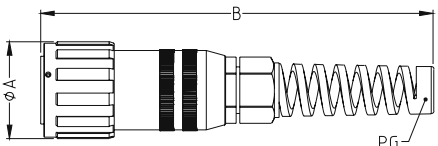
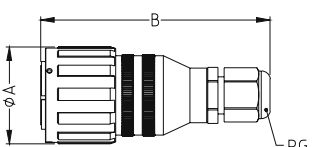

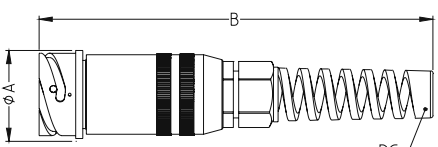
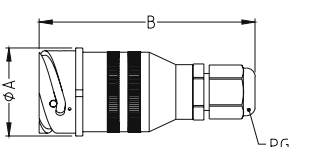
- 13 to 85 pins with Crimp/Solder bucket contacts
- 150 pins with Crimp contacts only
- 4 to 48 channels
- Gold plated contacts
- Synthetic insert
- Protective dust caps
- Industry standard compatible
- 2000 mating cycles
- Black finish
- Positive bayonet locking
- PG cable glands
- IP67 rated
- Metal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

Options: NPT threaded backshells.

Crimp Tooling: Page 129

Specifications: Page 130 **Part Number Breakdown:** Page 129


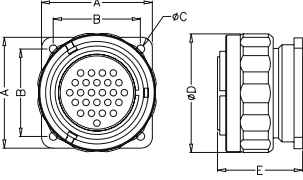

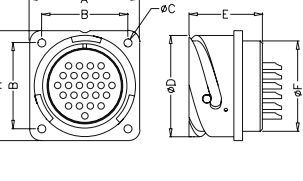

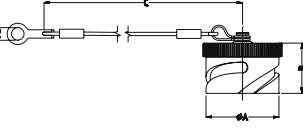

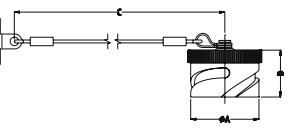
Wiring Information: Page 141

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

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


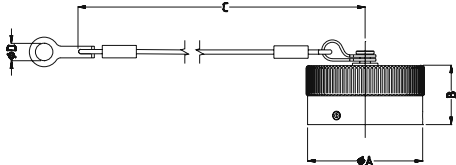

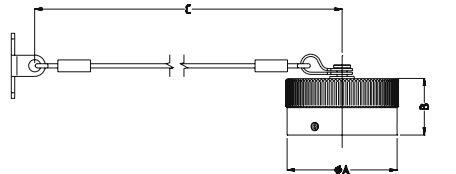
Multipin Connectors

MP-41 Series

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

Multipin Connectors

MP-41 Series

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

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

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

PART NUMBER BREAKDOWN MP-41 SERIES

MULTIPIN CIRCULAR CONNECTORS

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

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

9-41 SERIES

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

STANDARD DATA MP-41 SERIES

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

*Not suitable for domestic applications above 50V

Rev 2 - 03/2013



MP-62/65 SERIES

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

Features:


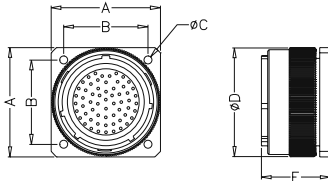

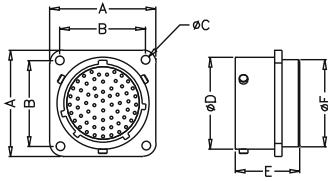
- 39 or 61 pins.
- Gold plated solder contacts.
- Neoprene insert.
- Protective dust caps
- Metal housings
- Environmental resistant.
- Black finish.
- Positive bayonet locking
- PG cable glands


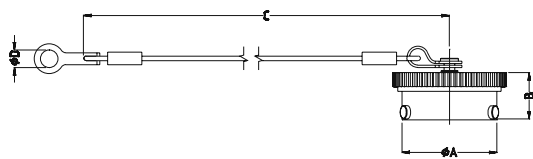

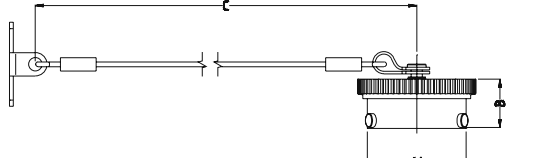

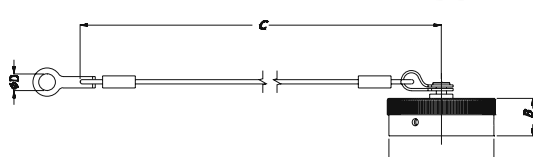

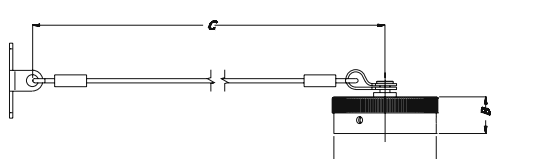
Specifications: Page 133 **Wiring Info: Page 141**

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

Multipin Connectors

MP-62/65 Series

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

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

STANDARD DATA MP-62 SERIES / MP - 65 SERIES

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

*Not suitable for domestic applications above 50V

Rev 3 - 03/2013



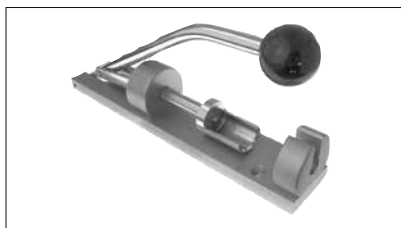
AMPHENOL-TUCHEL C146 HEAVY | MATE CONNECTORS

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




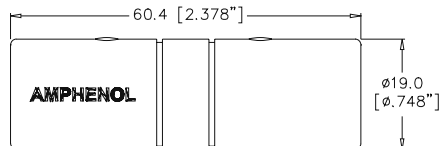

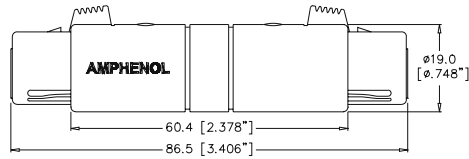

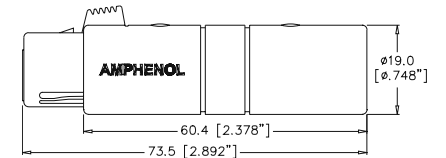

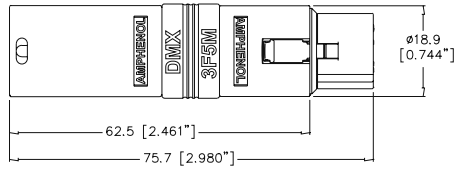

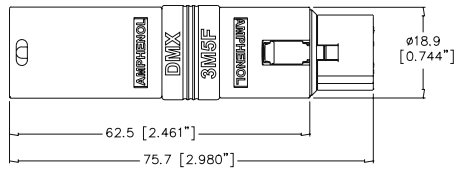

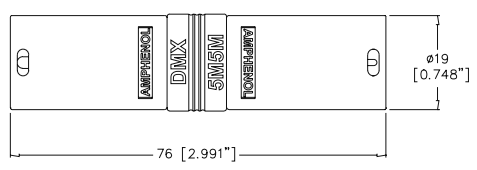

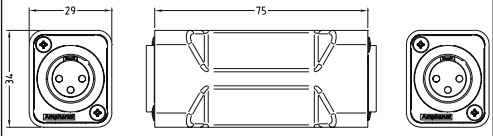

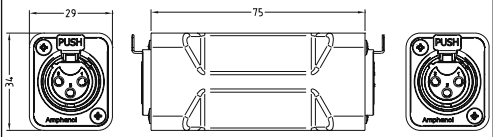
FIBRE OPTIC


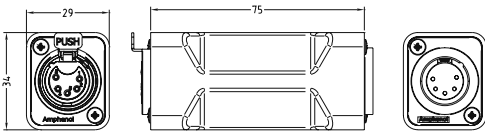

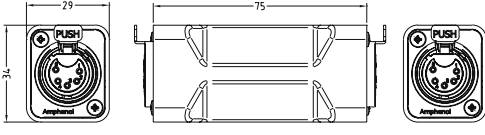

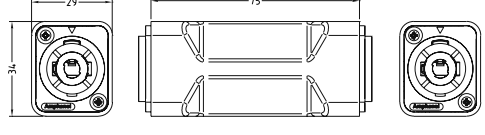

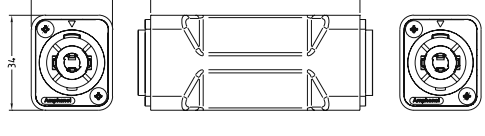

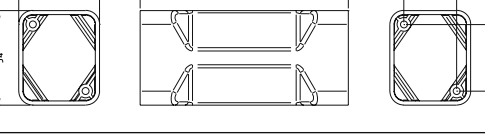

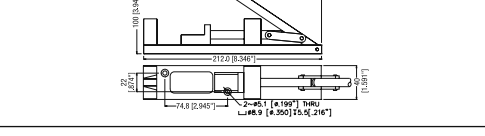

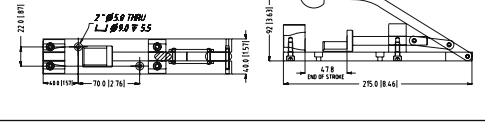

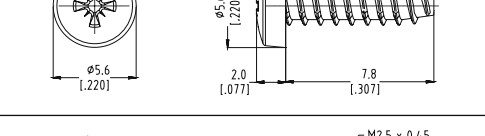

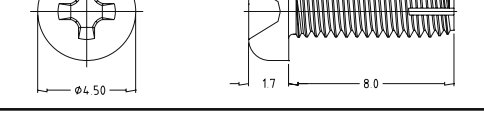
Amphenol has over 25 years experience in fibre optics dating back to their development of the first industry standard connector, the SMA. Today we can offer a complete range of products including Hybrid Fibre optic connectors for HDTV broadcast cameras SMPTE 304M compliant and ruggedised connectors and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




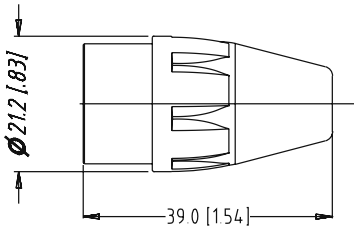

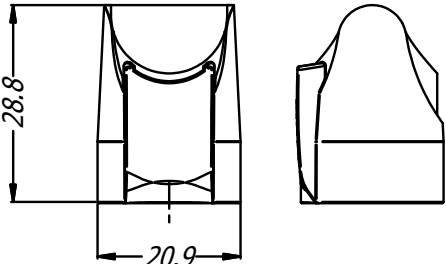

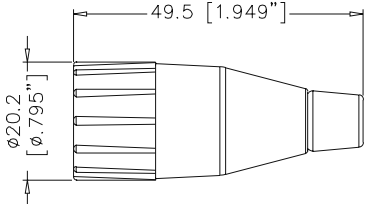
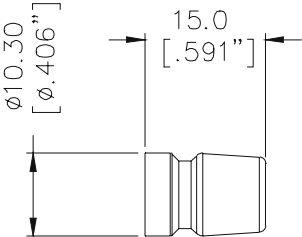
ACCESSORIES

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

| PRODUCT - FIGURE | DRAWING | Dimensions in mm (inches) | DESCRIPTION | VARIATIONS | PART NUMBER |
|---|---|--|--|----------------|-------------|
|  |  | 60.4 [2.378"] ø19.0 [ø.748"] | XLR 3 pole male to 3 pole male adapter, Pre wired, Metal Shell | Nickel Finish | AC3M3MW |
| | | | | Black Finish | AC3M3MBW |
|  |  | 60.4 [2.378"] 86.5 [3.406"] ø19.0 [ø.748"] | XLR 3 pole female to 3 pole female adapter, Pre wired, Metal Shell | Nickel Finish | AC3F3FW |
| | | | | Black Finish | AC3F3FBW |
|  |  | 60.4 [2.378"] 73.5 [2.892"] ø19.0 [ø.748"] | XLR 3 pole female to 3 pole male adapter, Pre wired, Metal Shell | Nickel Finish | AC3F3MW |
| | | | | Black Finish | AC3F3MBW |
|  |  | 62.5 [2.461"] 75.7 [2.980"] ø18.9 [ø.744"] | XLR 3 pole female to 5 pole male adapter, Pre wired, Metal Shell | Nickel Finish | AC3F5MW |
|  |  | 62.5 [2.461"] 75.7 [2.980"] ø18.9 [ø.744"] | XLR 3 pole male to 5 pole female adapter, Pre wired, Metal Shell | Nickel Finish | AC3M5FW |
|  |  | 76 [2.991"] ø19 [ø.748"] | XLR 5 pole male to 5 pole male adapter, Pre wired, Metal Shell | Nickel Finish | AC5M5MW |
|  |  | 29 34 75 | XLR D shell adapter, 3 pole male to 3 pole male, Pre-wired | Not Applicable | AC3M3MDW |
|  |  | 29 34 75 | XLR D shell adapter, 3 pole female to 3 pole female, Pre-wired | Not Applicable | AC3F3FDW |


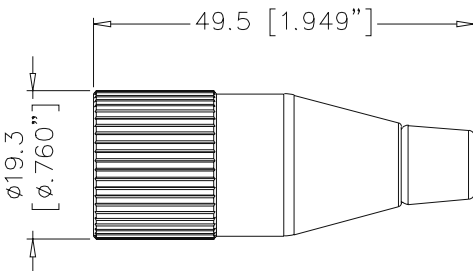

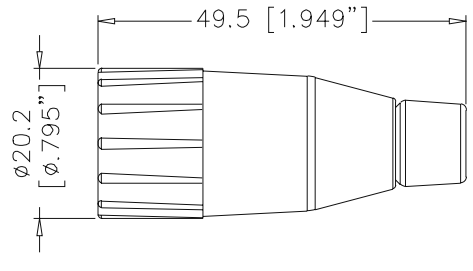

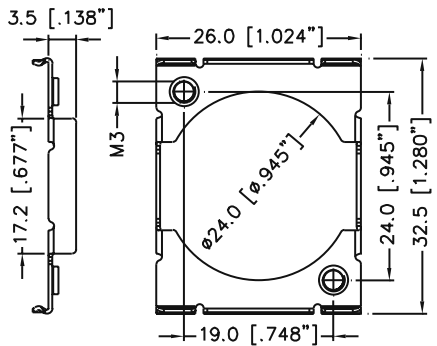

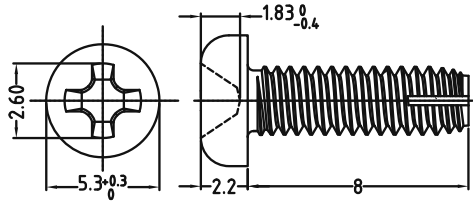
| PRODUCT - FIGURE | DRAWING | DESCRIPTION | VARIATIONS | PART NUMBER |
|---|---|--|--------------------------------|------------------------------|
|  |  | XLR D shell adapter, 5 pole male to 5 pole male, Pre-wired | Not Applicable | AC5M5MDW |
|  |  | XLR D shell adapter, 5 pole female to 5 pole female,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

Accessories

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

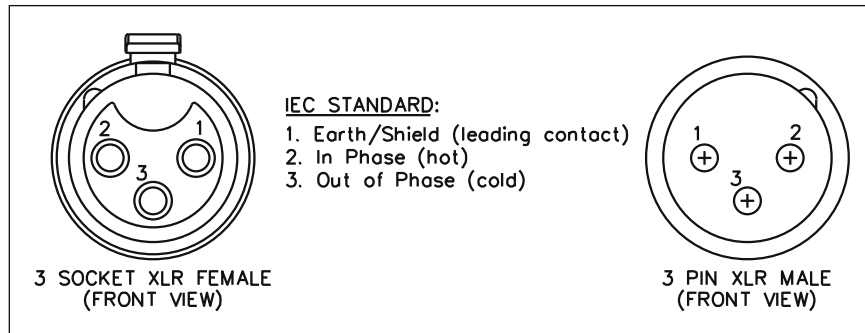
NOTE: All accessories comply with EU RoHS 2 Directive 2011/65/EU

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

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

CONNECTOR WIRING INFORMATION

XLR (Microphone / Patch Cables)

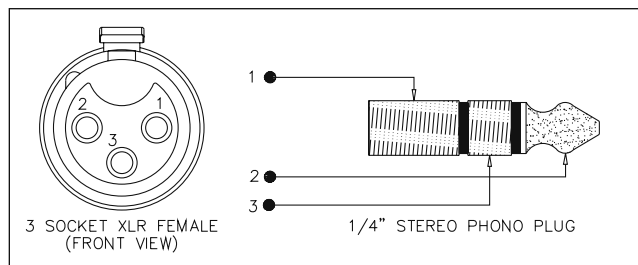


The standard XLR 3 contact pin outs are as shown above for a balanced lead. In such a configuration audio "Hot" (pin 2) is the in-phase connection whilst audio "Cold" (pin 3) is the out-of-phase connection. For an unbalanced lead however, you may connect pin 1 to either pin 2 or pin 3, but not both.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

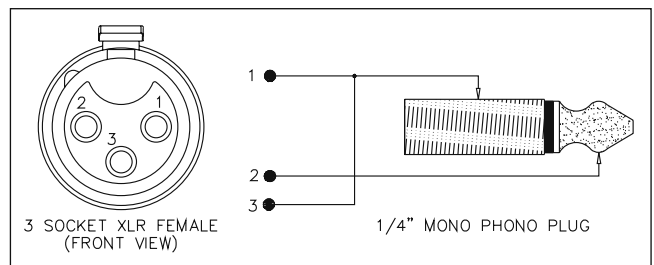
When terminating the cable shielding to pin 1 it is suggested that the shield be only grounded at one end of the cable to avoid inducing "hum". Pin 1 is a leading contact that engages at interconnection, before pin 2 or pin 3.

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

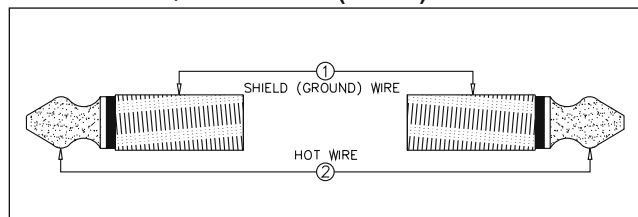
MICROPHONE CABLE - BALANCED



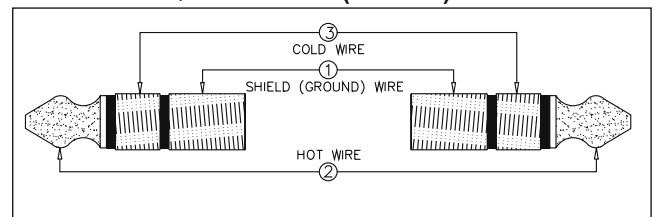
MICROPHONE CABLE - UNBALANCED



INSTRUMENT / LINE CABLE (MONO)



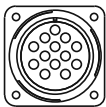
INSTRUMENT / LINE CABLE (STEREO)



MP Series

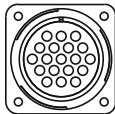
MP-41 Series
4 Ch – 13 pin

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



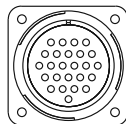
MP-41 Series
6 Ch – 19 pin

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



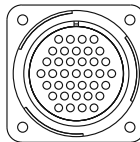
MP-41 Series
8 Ch – 25 pin

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



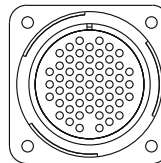
MP-41 Series
12 Ch – 37 pin

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



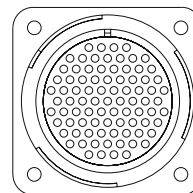
MP-41 Series
16 Ch – 54 pin

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



MP-41 Series
28 Ch – 85 pin

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

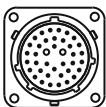


MP-41 Series
48 Ch – 150 pin

| Ch | + | - | G |
|---------|-----|-----|-----|
| 1 | 1 | 2 | 3 |
| 2 | 5 | 6 | 7 |
| 3 | 8 | 9 | 10 |
| 4 | 11 | 12 | 13 |
| 5 | 14 | 15 | 16 |
| 6 | 17 | 18 | 19 |
| 7 | 21 | 22 | 23 |
| 8 | 24 | 25 | 26 |
| 9 | 27 | 28 | 29 |
| 10 | 30 | 31 | 32 |
| 11 | 33 | 34 | 35 |
| 12 | 36 | 37 | 38 |
| 13 | 39 | 40 | 41 |
| 14 | 42 | 43 | 44 |
| 15 | 45 | 46 | 47 |
| 16 | 48 | 49 | 50 |
| 17 | 51 | 52 | 53 |
| 18 | 54 | 55 | 56 |
| 19 | 58 | 59 | 60 |
| 20 | 61 | 62 | 63 |
| 21 | 64 | 65 | 66 |
| 22 | 67 | 68 | 69 |
| 23 | 70 | 71 | 72 |
| 24 | 73 | 74 | 75 |
| 25 | 76 | 77 | 78 |
| 26 | 79 | 80 | 81 |
| 27 | 82 | 83 | 84 |
| 28 | 85 | 86 | 87 |
| 29 | 88 | 89 | 90 |
| 30 | 91 | 92 | 93 |
| 31 | 94 | 95 | 96 |
| 32 | 97 | 98 | 99 |
| 33 | 100 | 101 | 102 |
| 34 | 103 | 104 | 105 |
| 35 | 106 | 107 | 108 |
| 36 | 109 | 110 | 111 |
| 37 | 112 | 113 | 114 |
| 38 | 115 | 116 | 117 |
| 39 | 118 | 119 | 120 |
| 40 | 121 | 122 | 123 |
| 41 | 124 | 125 | 126 |
| 42 | 127 | 128 | 129 |
| 43 | 130 | 131 | 132 |
| 44 | 133 | 134 | 135 |
| 45 | 136 | 137 | 138 |
| 46 | 139 | 140 | 141 |
| 47 | 142 | 143 | 144 |
| 48 | 145 | 146 | 147 |
| General | 150 | | |
| Ground | | | |

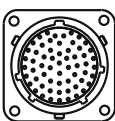
MP-62 Series
12 Ch – 39 pin

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



MP-62 Series
20 Ch – 61 pin

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



INDEX

| | | | | | | | | | |
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| | | AC3MBJ | 10 | AC5MB BULK | 11 | ACJC5V BULK | 45 | ACJM-NV35-2 | 109 |
| 52500005-732 | 135 | AC3M BULK | 10 | AC5MBH-AU-PRE | 35 | ACJC5VL BULK | 45 | ACJM-NV35-2S | 109 |
| 52500014-734 | 135 | AC3MBV1-AU-PRE | 33 | AC5MBJ | 11 | ACJC6AH BULK | 43 | ACJM-PC | 111 |
| 52500016-300 | 137 | AC3MBV2-AU-PRE | 33 | AC5M BULK | 11 | ACJC6AHL BULK | 43 | ACJM - PH | 110 |
| 52500016-400 | 137 | AC3MBV3-AU-PRE | 33 | AC5MBV-AU-PRE | 35 | ACJC6AV2 BULK | 43 | ACJM-PHOP | 110 |
| 52590060-300 | 137 | AC3MBV-AU-PRE | 32 | AC5MDZ | 22 | ACJC6AV2L BULK | 43 | ACJM-PHOP-1 | 110 |
| 52590074-300 | 137 | AC3MCP | 14 | AC5MDZB | 22 | ACJC6AV BULK | 43 | ACJM-PHR | 111 |
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PRODUCT SAFETY INFORMATION

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

1. Material Content and Physical Form

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

2. Fire Characteristics and Electric Shock Hazard

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

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

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

3. Handling

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

4. Disposal

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

5. Application

Connectors with exposed contacts should not be selected for use on the current supply side of an electrical circuit, because an electric shock could result from touching exposed contacts of an unmated connector. Voltages in excess of 30 V.A.C. or 42.5 V.D.C. are potentially hazardous and care should be taken to ensure that such voltages cannot be transmitted in any way to exposed metal parts of the connector body. The connector and wiring should be checked, before making live, to have no damage to metal parts or insulators, no solder blobs, loose strands, conducting lubricants, swarf, or any other undesired conducting particles.

Circuit resistance and continuity check should be made to make certain that there are no low resistance joints or spurious conducting paths. Always use the correct application tools as specified in the Data Sheets. Do not permit untrained personnel to wire, assemble or tamper with connectors. For operation voltage please see appropriate national regulations.

Important General Information

A) Air and creepage paths / Operating voltage.

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

B) Other important information

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

C) Assembly instructions

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

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