

XLR Connectors

AX Series Cable 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.

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.

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AX Series 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


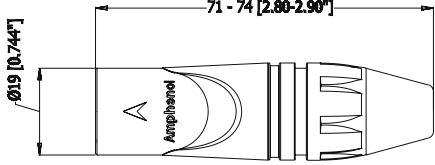

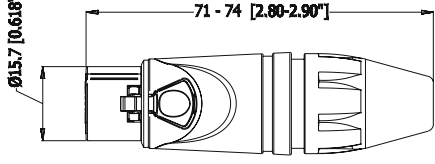

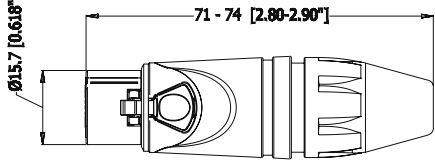

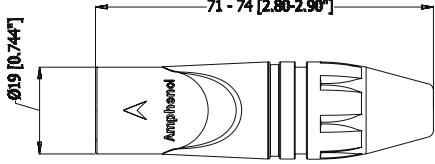

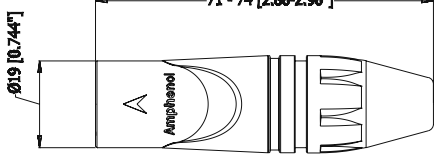

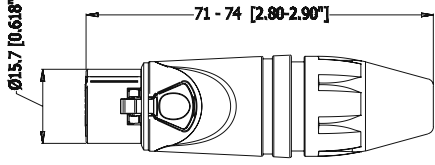

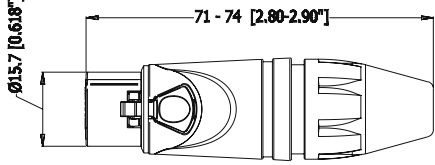
Assembly Instructions: Page 6 & 7

| PRODUCT - FIGURE | DRAWING | 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 Black Finish | Standard | AX3FB |
| | | | Gold Plated Contacts | AX3FB-AU |
| | | | Bulk Pack | AX3FB BULK |
| | | XLR 4 pole male Machined contacts Nickel Finish | Standard | AX4M |
| | | | Bulk Pack | AX4M BULK |

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

XLR Connectors

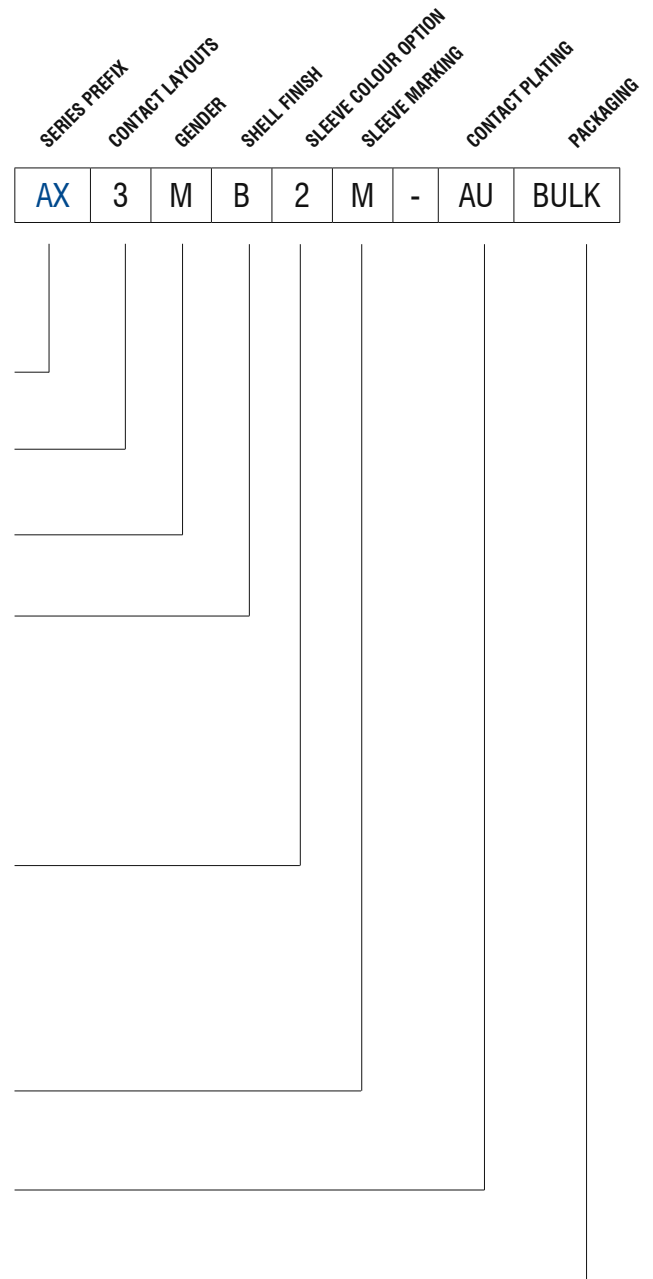
AX Series Cable Connectors

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

PART NUMBER BREAKDOWN

METAL SHELL TYPE - SOLDER

E. G . **AX3MB2M-AU BULK**
AX (Series Prefix), **3** contacts, **Male**, **Black** Finish,
2 (Red Sleeve) **M** (Sleeve Marking) - **AU** (Gold Plated Contacts), **Bulk** Packaged.



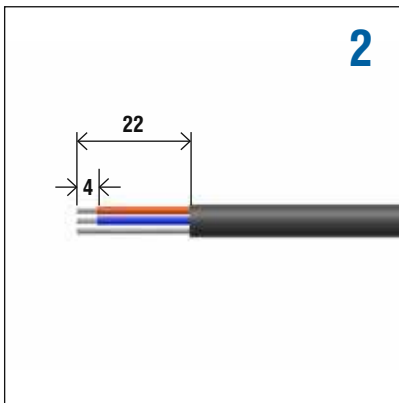
| | |
|-----------------------------|---|
| SERIES PREFIX | AX = Series Prefix |
| CONTACT LAYOUTS | 3 = 3 Contacts 4 = 4 Contacts 5 = 5 Contacts |
| GENDER | F = Female Socket Contacts M = Male Pin Contacts |
| SHELL FINISH | Blank = Nickel Plated Finish B = Black Finish |
| SLEEVE COLOUR OPTION | Blank = 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 |

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AX Series 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.



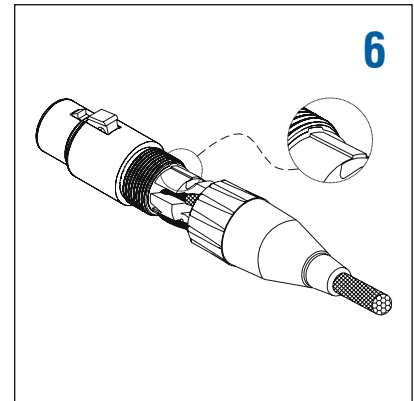
Install the cable clamp, flush to the insert making sure to align the top slot with the spring. Then push the insert & cable clamp together into the shell.



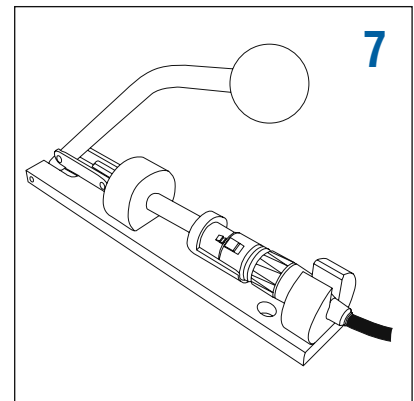
Thread the nut (Backshell) onto the shell (Torque 0.8Nm - 1.2Nm) to activate the cable clamp and close the connector assembly.

PI539 ASSEMBLY INSTRUCTIONS

AX SERIES FEMALE XLR CABLE CONNECTOR



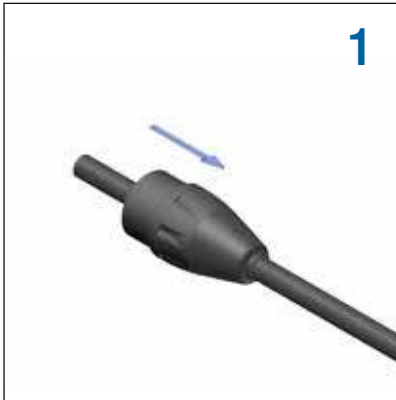
Close the cable clamp slightly and push the boot over the clamp ensuring the wires fit inside the boot.



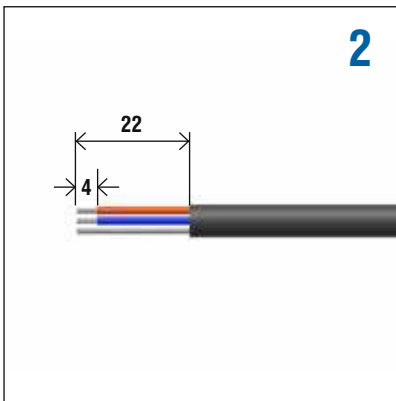
Final assembly can be achieved either by manually screwing the boot on, or by using an Amphenol Australia T2860 termination tool.

PI538 ASSEMBLY INSTRUCTIONS

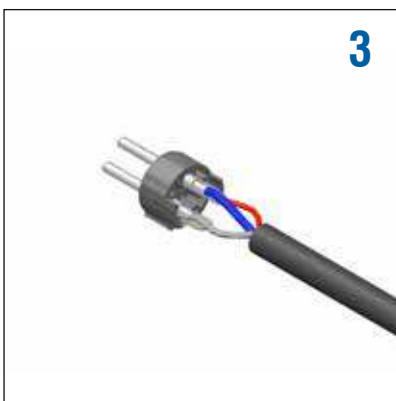
AX SERIES MALE XLR
CABLE CONNECTOR



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.

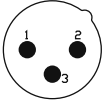

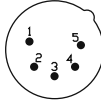


Align the key of the insert with the keyway on the shell then push the pin insert & cable clamp together in the shell.



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) | | |

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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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XLR Connectors

AC Series 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


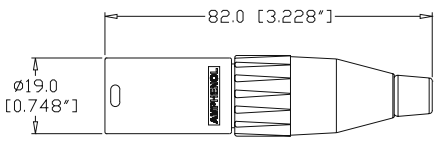

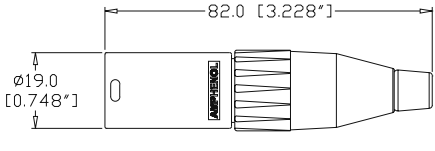

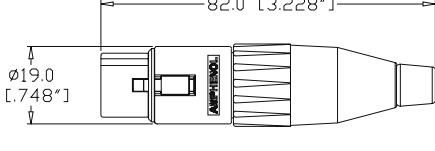

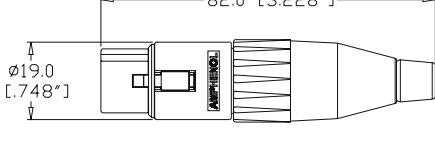

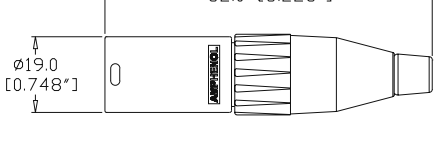

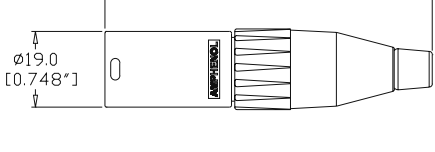

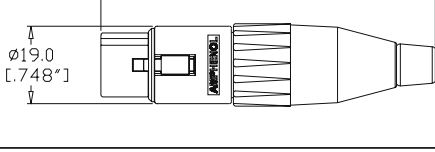

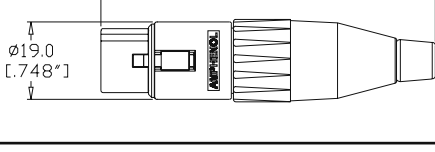
Part Number Breakdown: Page 13

Specifications: Page 15

| PRODUCT - FIGURE | DRAWING | 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 |
| | | | Bulk Pack | AC3MMB BULK |
| | | XLR 3 pole male, Stamped contacts, Nickel Finish, Jaws cable clamp | Standard | AC3M |
| | | | Large Cable Clamp | AC3MJ |
| | | | Bulk Pack | AC3M BULK |
| | | XLR 3 pole male, Stamped contacts, Black Finish, Jaws cable clamp | Standard | AC3MB |
| | | | Gold Plated Contacts | AC3MB-AU |
| | | | Large Cable Clamp | AC3MBJ |
| | | | Bulk Pack | AC3MB BULK |
| | | XLR 3 pole female, Stamped contacts, Nickel Finish, Jaws cable clamp | Standard | AC3F |
| | | | Large Cable Clamp | AC3FJ |
| | | | Bulk Pack | AC3F BULK |
| | | XLR 3 pole female, Stamped contacts, Black Finish, Jaws cable clamp | Standard | AC3FB |
| | | | Gold Plated Contacts | AC3FB-AU |
| | | | Large Cable Clamp | AC3FBJ |
| | | | Bulk Pack | AC3FB BULK |


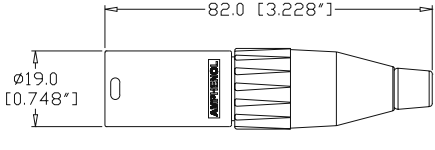

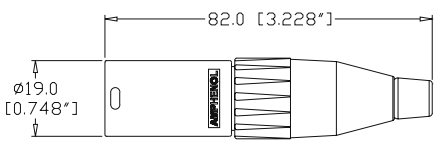

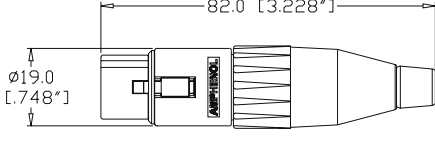

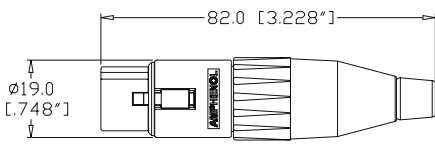

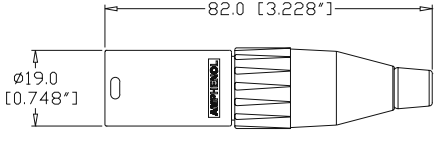

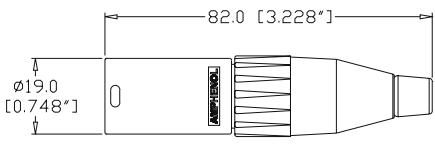

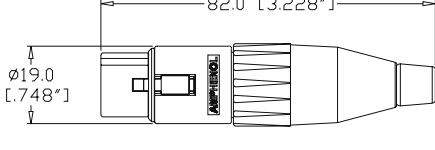

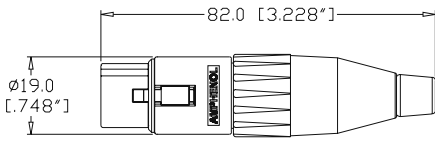
XLR Connectors

AC Series 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 |
| Bulk Pack | AC4MB BULK | | | |
|  |  | 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 |
| Bulk Pack | AC4FB BULK | | | |
|  |  | 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 |
| Bulk Pack | AC5MB BULK | | | |
|  |  | 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 |
| Bulk Pack | AC5FB BULK | | | |

XLR Connectors

AC Series Cable Connectors

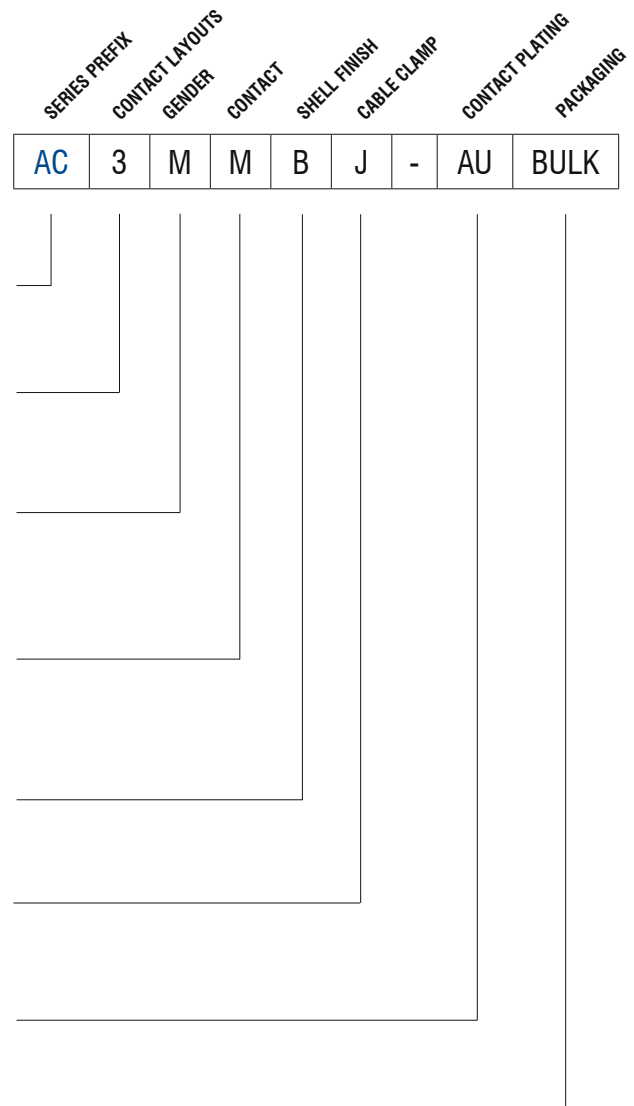
| PRODUCT - FIGURE | DRAWING | Dimensions in mm (inches) | DESCRIPTION | VARIATIONS | PART NUMBER |
|---|---|---------------------------|---|----------------------|-------------|
|  |  | | XLR 6A pole male, Machined contacts, Nickel Finish, Jaws cable clamp | Standard | AC6AM |
| | | | | Large Cable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

PART NUMBER BREAKDOWN

METAL SHELL TYPE - SOLDER

E. G. **AC3MMBJ-AU BULK**
AC (Series Prefix), **3** contacts, **Male**, **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 134 and simply add colour to end of part number. Example: AC3MM - RED

XLR Connectors

AC Series 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.)

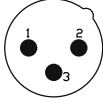
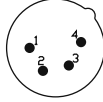
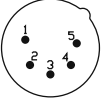
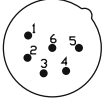
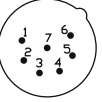
Options: Gold Plated Contacts, Stamped Contacts (3 Contact only), Bulk Pack, Coloured Boots / Backshells 3, 4, 5, 6A and 7 Contacts.

Specifications: Page 15

| PRODUCT - FIGURE | DRAWING | 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 | 3mm to 6.5mm (0.118" to 0.255") | | | |
| | | Large | 6.5mm to 8mm (0.255" to 0.314") | | | |
| MATERIALS | Connector shell - Metal | Diecast Zinc Alloy | | | | |
| | Shell finish | Satin nickel or Black polyester | | | | |
| | Connector shell - Thermoplastic | Thermoplastic, UL94V-0 Modified PPE Resin | | | | |
| | Shell finish | Black | | | | |
| | Insulators | UL94V-0 PBT Resin or Modified PPE Resin | | | | |
| | Boot / Backshell | UL94V-0 Modified PPE Resin or Machined Brass | | | | |
| | Finish | Black, other colours available - see page 134 | | | | |
| | Cable clamp (JAWS) | Standard Solder | UL94V-0 Modified PPO Resin (Black) | | | |
| | Large Solder | UL94V-0 Modified PPO Resin (Purple) | | | | |
| Cable Bushing | | Santoprene | | | | |
| Male Contact (Solder / Plating) | Stamped | Phosphor Bronze / Silver or Gold (Optional) | | | | |
| | Machined | Brass / Silver or Gold (Optional) | | | | |
| Female Contact (Solder / Plating) | Stamped | Phosphor Bronze / Tin or Gold (Optional) | | | | |
| | Machined | Brass / Silver or Gold (Optional) | | | | |

Rev 6 - 03/2015

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 "Z" Series Chassis Mount



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

Features

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

Options

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

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

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

Ordering Codes

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

AC "Z" SERIES XLR METAL CHASSIS MOUNT 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

AC "Z" Series Chassis Mount



Features:

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

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

Part Number Breakdown: [Page 21](#)

Specifications: [Page 22](#)

PCB Footprints: [Page 23](#)

Panel Cutouts: [Page 23](#)

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

XLR Connectors

AC "Z" Series Chassis Mount

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

XLR Connectors

AC "Z" Series Chassis Mount

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

XLR Connectors

AC "Z" Series Chassis Mount



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 21 Specifications: Page 22
PCB Footprints: Page 23 Panel Cutouts: Page 23

| 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 4 5 6 7 | AC3MPNZ AC4MPNZ AC5MPNZ AC6AMPNZ AC7MPNZ |
| | | 2.4 [.094"] 27.2 [1.070"] 26.4 [1.039"] 36.7 [1.445"] 16.7 [.656"] 31.5 [1.238"] | XLR male, Wide flange, Machined contacts | 3 | AC3MMP |
| | | 2.4 [.094"] 27.2 [1.070"] 26.4 [1.039"] 36.7 [1.445"] 16.7 [.656"] 32.5 [1.278"] | XLR male, Wide flange, Stamped contacts | 3 4 5 6 7 | AC3MP AC4MP AC5MP AC6AMP AC7MP |
| | | 3.5 [1.38"] 2.5 [.098"] 27.2 [1.070"] 26.4 [1.039"] 36.7 [1.445"] 16.7 [.656"] 31.0 [1.220"] | XLR female, Wide flange, Stamped contacts | 3 4 5 6 7 | AC3FPZ AC4FPZ AC5FPZ AC6AFPZ AC7FPZ |

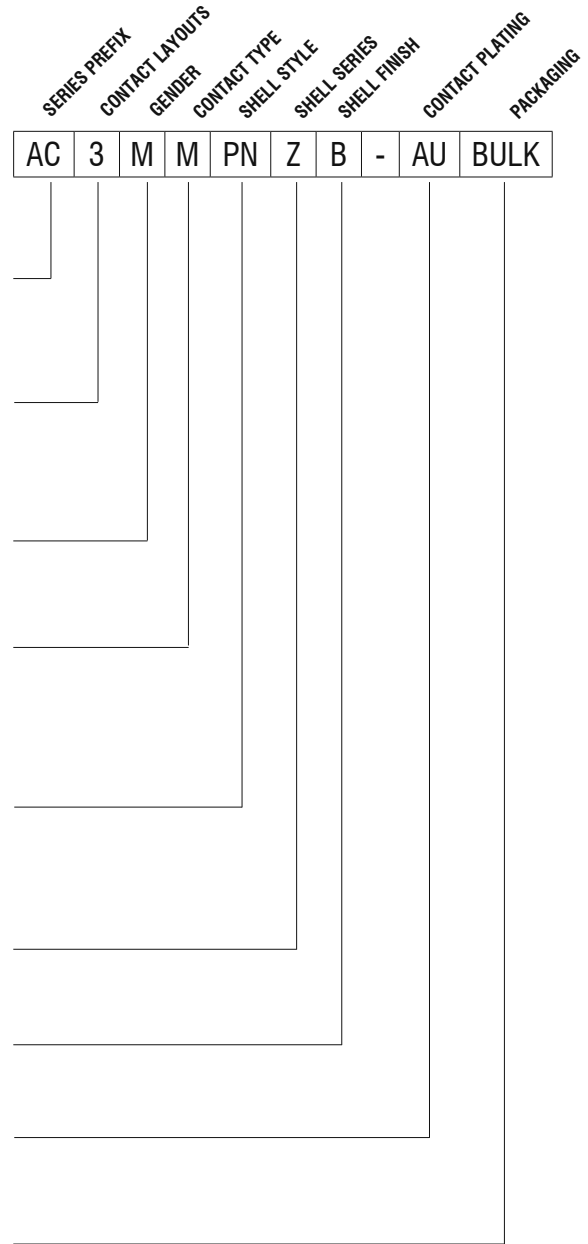
*Black finish available on special request please contact factory.

PART NUMBER BREAKDOWN

METAL TYPE FLANGE

E. G. **AC3MMPNZVB-AU BULK**
AC (Series Prefix), **3** contacts, **Male**, **Machined Contacts**, **PN** (Narrow Flange), **Z** (Metal Chassis Series), **Black 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.

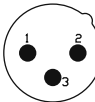
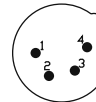
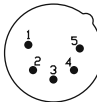
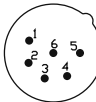
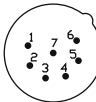
³ 7 Contact is gold plated as standard.

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

XLR Connectors

AC "Z" Series Chassis Mount

STANDARD DATA AC 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 |
| 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 | 1400V | | | | |
| | Current carrying capacity: | | | | | |
| | Solder | 15A | 10A | 7.5A | 7.5A | 5A |
| | Printed Circuit Board (PCB) | 15A | 10A | 7.5A | 7.5A | 5A |
| | Typical Contact Resistance | ≤3mΩ | | | | |
| Insulation Resistance | ≥1000MΩ | | | | | |
| CLIMATIC CHARACTERISTICS | Protection Class | IP40 | | | | |
| | Operating Temperature | -25 °C to +75 °C (-13°F to +167°F) | | | | |
| MECHANICAL CHARACTERISTICS | 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 | UL94V-0 PBT Resin or Modified PPE Resin | | | | |
| | Male Contact | | | | | |
| | Stamped Solder and PCB-(Material/Plating) | Phosphor Bronze / Silver or Gold (optional) | | | | |
| | Machined Solder-(Material/Plating) | Brass / Silver or Gold (optional) | | | | |
| | Female Contact | | | | | |
| Stamped Solder and PCB-(Material/Plating) | Phosphor Bronze / Tin or Gold (optional) | | | | | |
| Machined Solder-(Material/Plating) | Brass / Silver or Gold (Optional) | | | | | |

Rev 3 - 03/2013

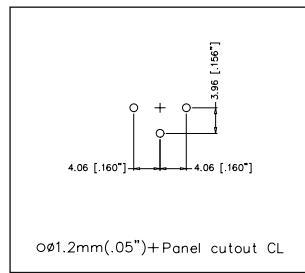
¹⁾ Not suitable for domestic applications above 50V

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

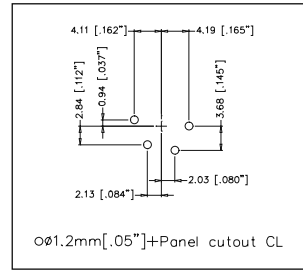
AC SERIES CHASSIS METAL "Z"

PCB FOOTPRINTS STRAIGHT (V)

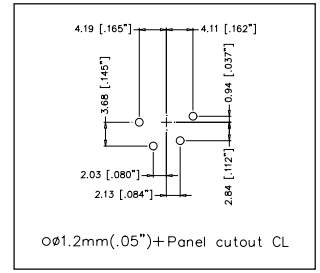
CONNECTOR SIDE OF PCB



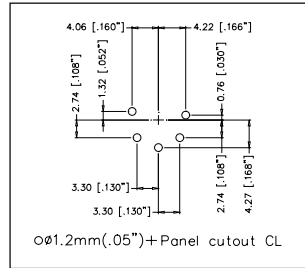
AC3MM*ZV



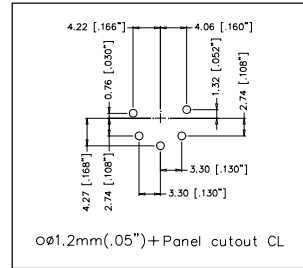
AC4F*ZV



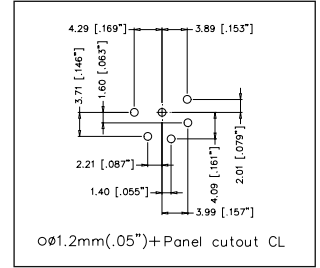
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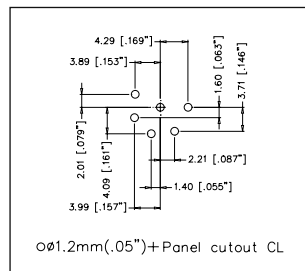
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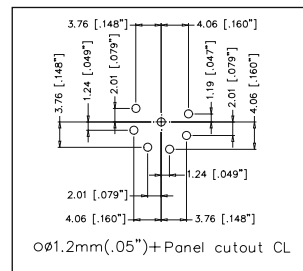
AC5M*ZV



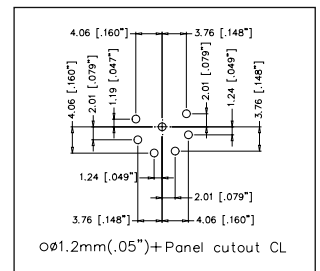
AC6AF*ZV



AC6AM*ZV



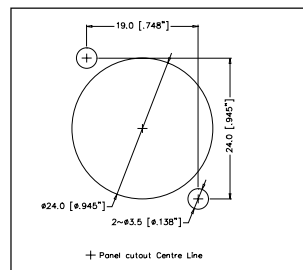
AC7F*ZV



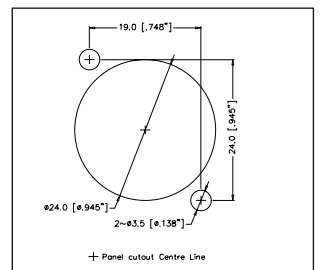
AC7M*ZV

PANEL CUTOUT DIMENSIONS

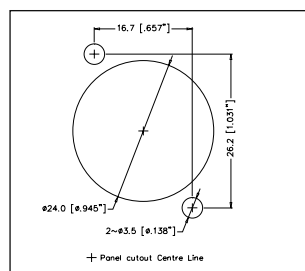
FRONT VIEW



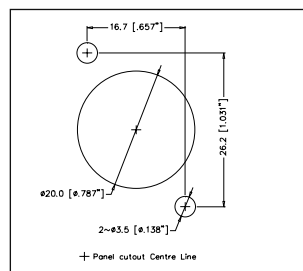
AC*FDZ



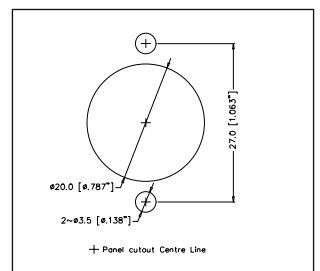
AC*MDZ



AC*FPZ



AC*MP



AC*MPNZ

XLR Connectors

AC Series PCB Chassis Mount



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.

XLR Connectors

AC Series PCB Chassis Mount (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 32](#) **Specifications:** [Page 35](#)
PCB Footprints: [Page 36](#) **Panel Cutouts:** [Page 37](#)

Recommended Fastener: [Page 132](#)

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


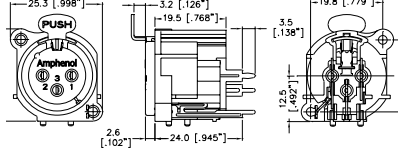

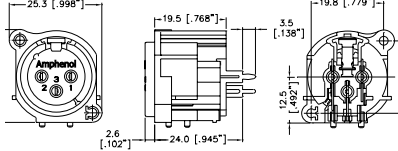

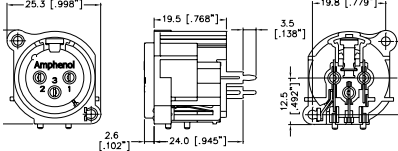

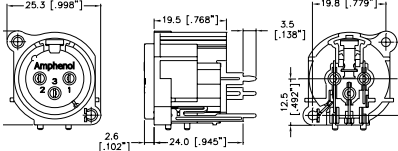

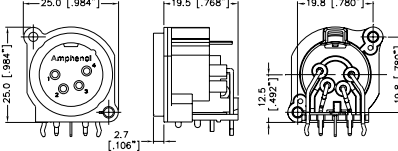

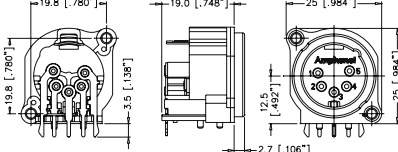

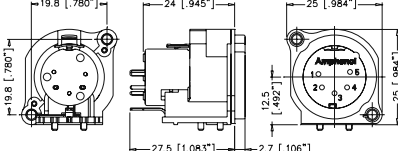

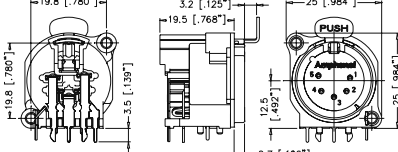

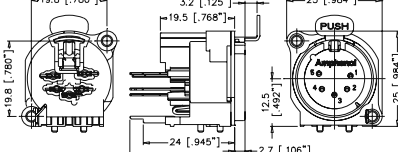
XLR Connectors

AC Series PCB Chassis Mount (A Type)

| PRODUCT - FIGURE | DRAWING | 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 |

XLR Connectors

AC Series PCB Chassis Mount (A Type)

| PRODUCT - FIGURE | DRAWING | Dimensions in mm (inches) | DESCRIPTION | GROUND LINK VARIATIONS | PART NUMBER |
|---|---|--|---|---|-----------------|
|  |  | 25.3 [.998"] 3.2 [.126"] 19.5 [.768"] 19.8 [.779"] 3.5 [.138"] 12.5 [.492"] 2.6 [.102"] 24.0 [.945"] | 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 |
|  |  | 25.3 [.998"] 19.5 [.768"] 19.8 [.779"] 3.5 [.138"] 12.5 [.492"] 2.6 [.102"] 24.0 [.945"] | XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack | No Ground Link | AC3FAVL-AU-PRE |
|  |  | 25.3 [.998"] 19.5 [.768"] 19.8 [.779"] 3.5 [.138"] 12.5 [.492"] 2.6 [.102"] 24.0 [.945"] | 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 |
|  |  | 25.3 [.998"] 19.5 [.768"] 19.8 [.779"] 3.5 [.138"] 12.5 [.492"] 2.6 [.102"] 24.0 [.945"] | 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 |
|  |  | 25.0 [.984"] 19.5 [.768"] 19.8 [.780"] 3.5 [.138"] 12.5 [.492"] 2.7 [.106"] 25.0 [.984"] | XLR 4 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack | Mating connector shell to Chassis - Pin 1 sep. Ground | AC4MAH-AU-B |
|  |  | 19.8 [.780"] 19.0 [.748"] 25 [.984"] 3.5 [.138"] 12.5 [.492"] 2.7 [.106"] 25 [.984"] | 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 |
|  |  | 19.8 [.780"] 24 [.945"] 25 [.984"] 3.5 [.138"] 12.5 [.492"] 2.7 [.106"] 27.5 [1.083"] | 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 |
|  |  | 19.8 [.780"] 3.2 [.125"] 19.5 [.768"] 19.8 [.780"] 25 [.984"] 3.5 [.139"] 12.5 [.492"] 2.7 [.106"] 25 [.984"] | 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 |
|  |  | 19.8 [.780"] 3.2 [.125"] 19.5 [.768"] 19.8 [.780"] 25 [.984"] 3.5 [.139"] 12.5 [.492"] 2.7 [.106"] 24 [.945"] 27.5 [1.083"] | 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 PCB Chassis Mount (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 32](#) **Specifications:** [Page 35](#)

PCB Footprints: [Page 36](#) **Panel Cutouts:** [Page 37](#)

Recommended Fastener: [Page 132](#)

| PRODUCT - FIGURE | DRAWING | Dimensions in mm (inches) | DESCRIPTION/ GROUND LINK | MOUNTING FLANGE VARIATIONS | PART NUMBER |
|------------------|---------|--|--|-------------------------------|--------------|
| | | 25.3 [.996"] 19.5 [.768"] 19.8 [.780"] 25.3 [.996"] 2.7 [.106"] 3.5 [.139"] 12.5 [.492"] 19.8 [.780"] | XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack No Ground Link | Nickel Finish | AC3MBH-AU-B |
| | | 25.3 [.996"] 19.5 [.768"] 19.8 [.780"] 25.3 [.996"] 2.7 [.106"] 3.5 [.139"] 12.7 [.500"] 19.8 [.780"] | XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis to Mating connector shell | Nickel Finish | AC3MBH1-AU-B |
| | | 25.3 [.996"] 19.5 [.768"] 19.8 [.780"] 25.3 [.996"] 2.7 [.106"] 3.5 [.136"] 12.5 [.492"] 19.8 [.780"] | XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack Mating connector shell to Chassis - Pin 1 sep. Ground | Nickel Finish | AC3MBH2-AU-B |
| | | 25.3 [.996"] 19.5 [.768"] 19.8 [.780"] 25.3 [.996"] 2.7 [.106"] 3.5 [.139"] 12.5 [.492"] 19.8 [.780"] | XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack Mating connector shell to Pin 1 | Nickel Finish | AC3MBH3-AU-B |
| | | 25.3 [.996"] 19.5 [.768"] 19.8 [.780"] 25.3 [.996"] 2.7 [.106"] 3.5 [.139"] 12.5 [.492"] 19.8 [.780"] | XLR 3 pole male, Horizontal PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack No Ground Link | Nickel Finish | AC3MBHL-AU-B |
| | | 25.3 [.996"] 24.0 [.945"] 19.5 [.768"] 19.8 [.780"] 25.3 [.996"] 2.7 [.106"] 3.5 [.139"] 12.5 [.492"] 19.8 [.780"] | XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack No Ground Link | Nickel Finish | AC3MBV-AU-B |

XLR Connectors

AC Series PCB Chassis Mount (B Type)

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

XLR Connectors

AC Series PCB Chassis Mount (B Type)

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

XLR Connectors

AC Series PCB Chassis Mount (B Type)

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

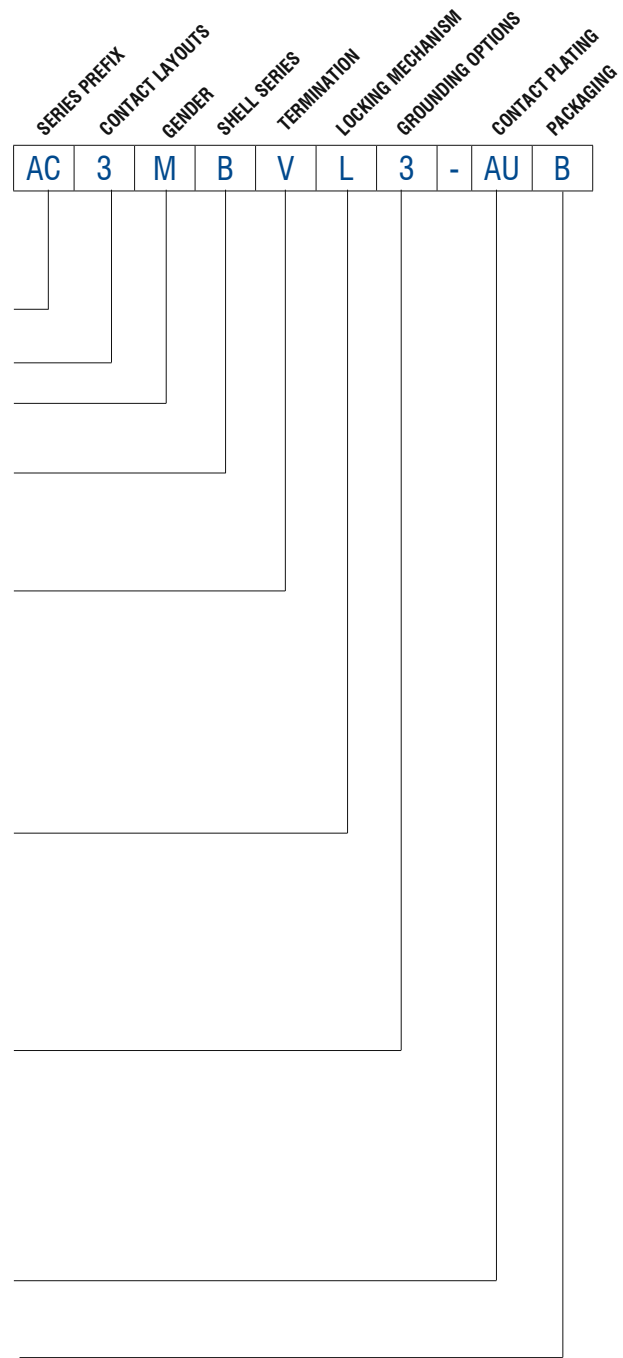
PART NUMBER BREAKDOWN

AC SERIES A AND B TYPE MALE - 3 CONTACT

E. G. **AC3MAVL3-AU B**

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

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

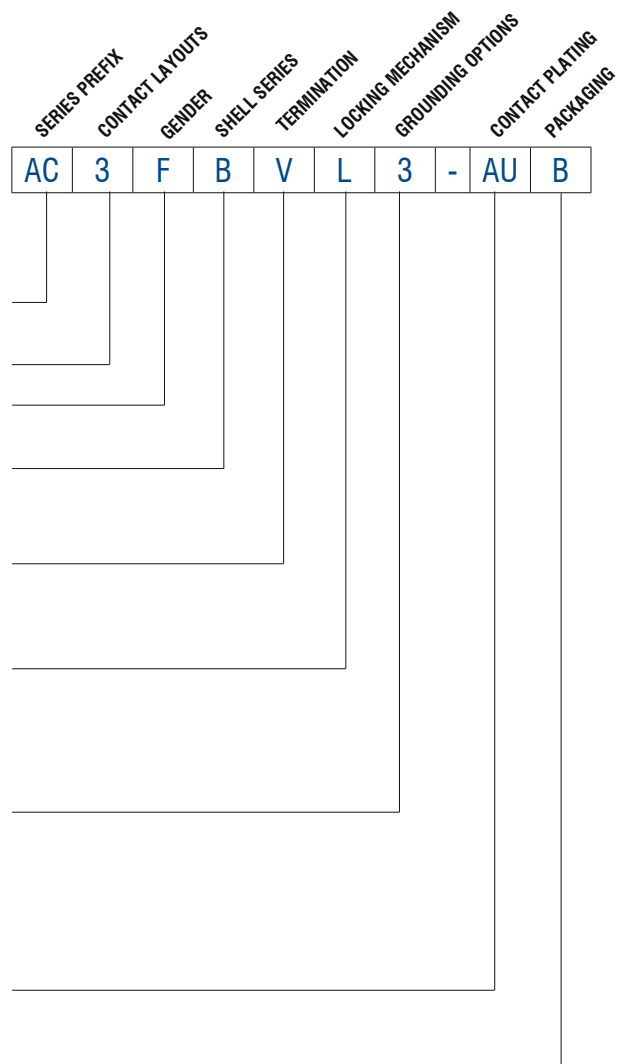


PART NUMBER BREAKDOWN

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), **B**ulk Packaged.

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



XLR Connectors

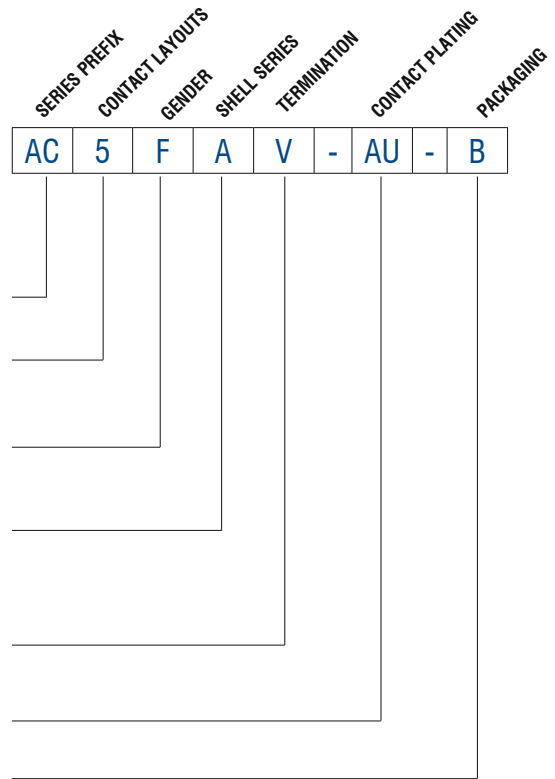
AC Series PCB Chassis Mount

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

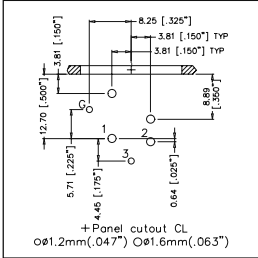
| | | VALUE | | |
|-----------------------------------|---|---|---|---|
| GENERAL CHARACTERISTICS | Number of contacts | 3 | 4 | 5 |
| | Contact Arrangements (Front view of pin insert) |  |  |  |
| | Termination | Printed Circuit Board (PCB) | | |
| | Flammability rating of plastics | UL94V-0 | | |
| | 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

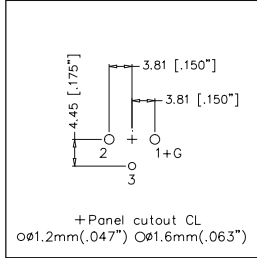
² Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.

³ Refer to page 132

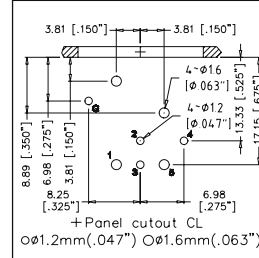
AC SERIES A AND B TYPE CHASSIS PCB FOOTPRINTS - CONNECTOR SIDE OF PCB



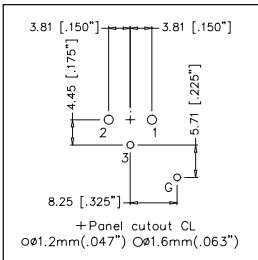
**AC3FAH2
AC3FBH2**



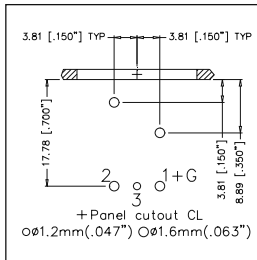
**AC3FAV1
AC3FAV3
AC3FBV1
AC3FBV3
AC3FAV
AC3FBV**



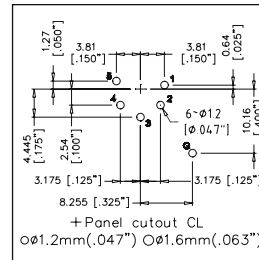
AC5FAH



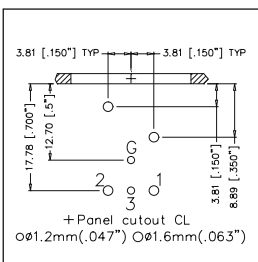
**AC3FAV2
AC3FBV2**



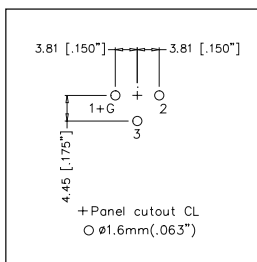
**AC3MAH1
AC3MAH3
AC3MBH1
AC3MBH3
AC3MAH
AC3MBH
AC3MBHL**



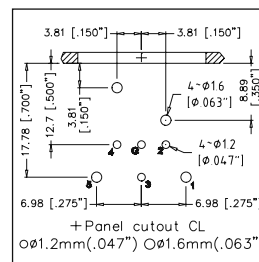
AC5FAV



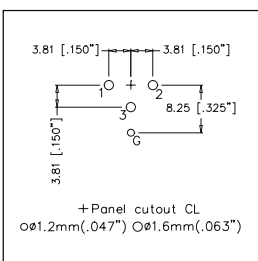
**AC3MAH2
AC3MAH4
AC3MBH2**



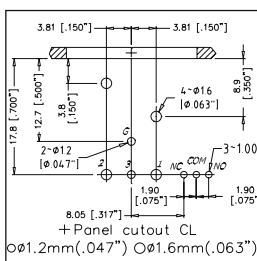
**AC3MAV1
AC3MAV3
AC3MBV1
AC3MBV3
AC3MAV
AC3MBV**



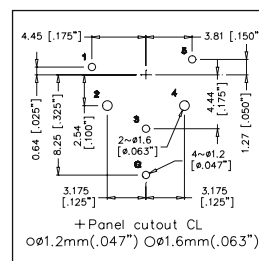
AC5MAH



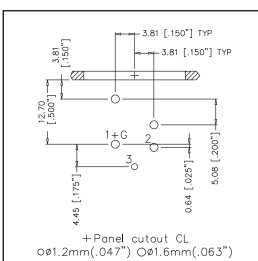
**AC3MAV2
AC3MAV4
AC3MBV2**



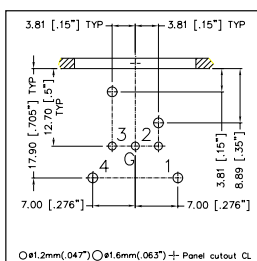
AC3MAH4SWB



AC5MAV



**AC3FAH1
AC3FAH3
AC3FBH1
AC3FBH3
AC3FAH
AC3FBH**

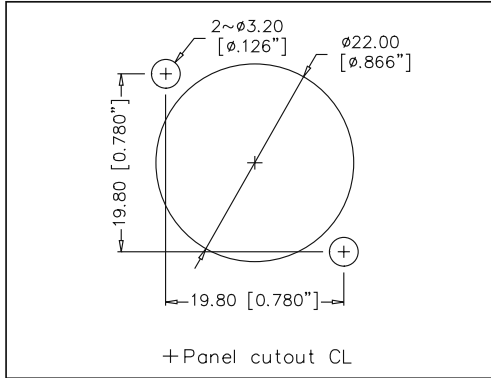


AC4MAH

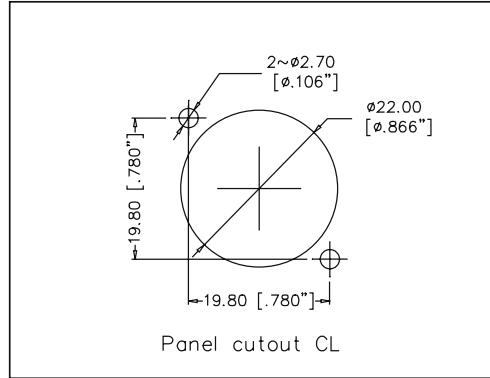
AC SERIES A AND B TYPE CHASSIS

PANEL CUTOUT DIMENSIONS - FRONT VIEW

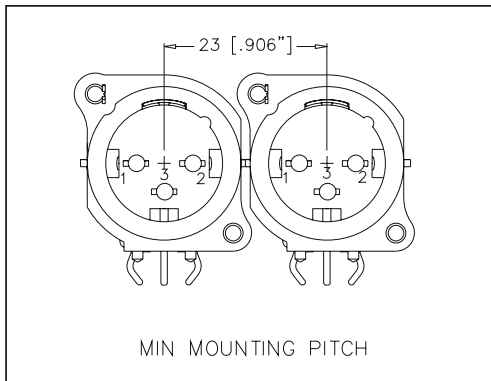
A TYPE



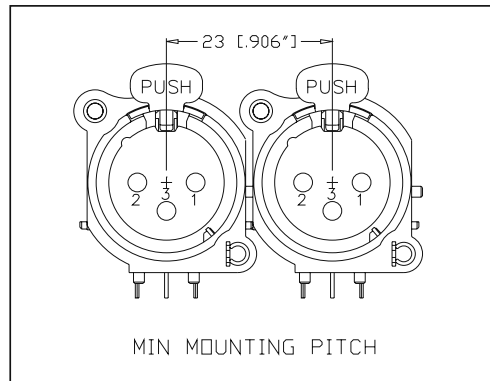
B TYPE



**A AND B
TYPE MALE
MOUNTING
PITCH**



**A AND
B TYPE
FEMALE
MOUNTING
PITCH**



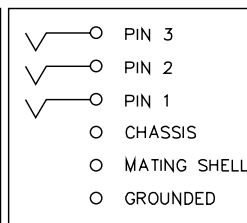
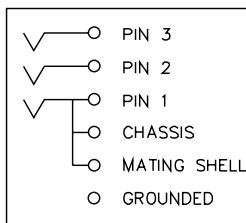
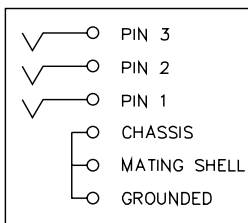
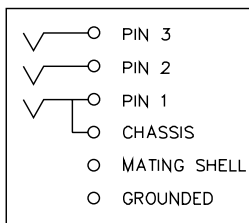
AC3FA/BH/V SCHEMATIC CHART

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

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

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

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

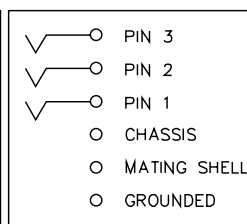
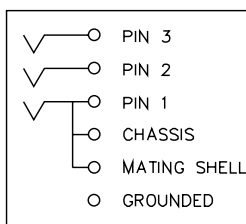
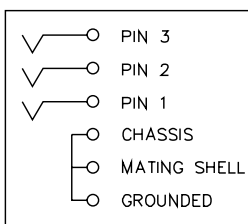
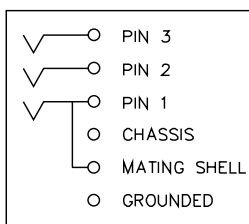


AC3MA/BH/V3-AU
AC3MA/BH/VL3-AU

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

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

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



XLR Connectors

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



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

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

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.

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 44](#)

Specifications: [Page 46](#)

PCB Footprints: [Page 45](#)

Recommended Fastener: [Page 132](#)

| PRODUCT - FIGURE | DRAWING | Dimensions in mm (inches) | DESCRIPTION | VARIATIONS | PART NUMBER |
|------------------|---------|---|---|--------------------------------|----------------|
| | | 19.80 781 25.30 996 27.5 1082 19.80 781 2.7 106 3.5 138 | Low Profile XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Horizontal PCB mount, Bulk Pack | Latching | ACJC6AH BULK |
| | | 19.80 781 25.30 996 27.5 1082 19.80 781 2.7 106 3.5 138 | Low Profile XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Horizontal PCB mount, Bulk Pack | Non-latching, Retention Spring | ACJC6AHL BULK |
| | | 19.80 781 25.3 996 24.0 945 6.2 165 3.7 146 | Low Profile XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Vertical PCB mount, Bulk Pack | Latching | ACJC6AV2 BULK |
| | | 19.80 781 25.3 996 24.0 945 6.2 165 3.7 146 | Low Profile XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Vertical PCB mount, Bulk Pack | Non-latching, Retention Spring | ACJC6AV2L BULK |
| | | 19.80 781 25.30 996 27.5 1082 19.80 781 2.7 106 3.50 138 | Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack, Horizontal PCB mount, Bulk Pack | Latching | ACJC9AH BULK |
| | | 19.80 781 25.30 996 27.5 1082 19.80 781 2.7 106 3.50 138 | Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack, Horizontal PCB mount, Bulk Pack | Non-latching, Retention Spring | ACJC9AHL BULK |

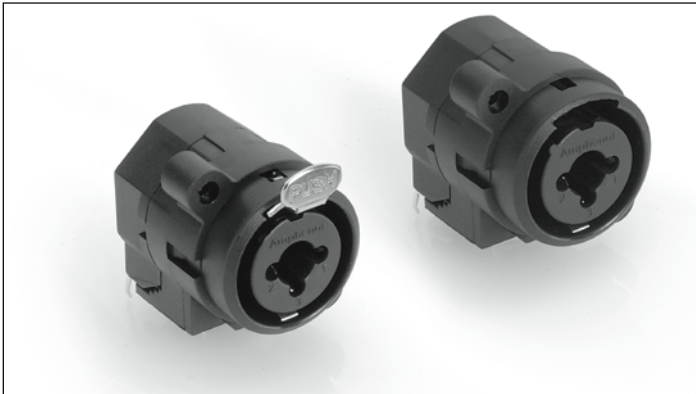
XLR Connectors

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 44](#)

Specifications: [Page 46](#)


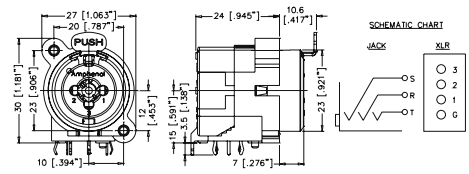

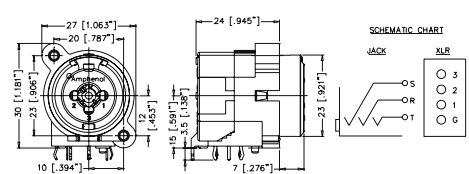

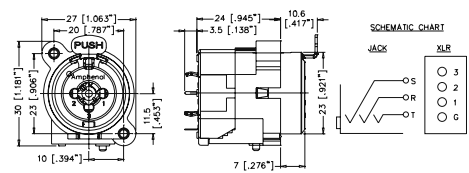

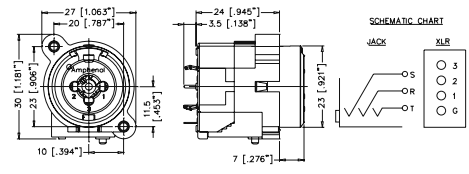

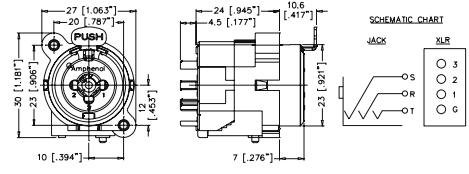

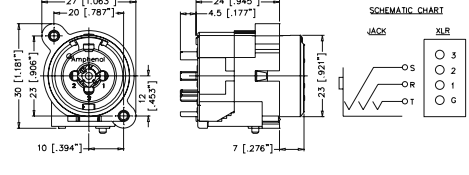

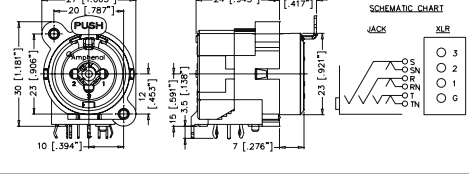

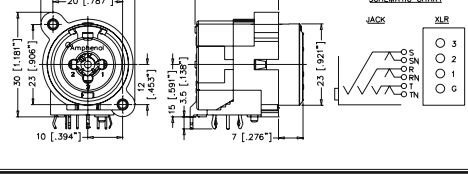
PCB Footprints: [Page 45](#)

Recommended Fastener: [Page 132](#)

| PRODUCT - FIGURE | DRAWING | Dimensions in mm (inches) | DESCRIPTION | VARIATIONS | PART NUMBER |
|------------------|---------|---|---|--------------------------------|--------------|
| | | 27 [1.063] 20 [0.787] 30 [1.181] 23 [0.906] 10 [.394] 12 [.475] 24 [.945] 10.6 [.417] 23 [.921] 7 [.276] 19 [.752] 3.5 [0.138] | XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Horizontal PCB mount, Bulk Pack | Latching | ACJC5H BULK |
| | | 27 [1.063] 20 [0.787] 30 [1.181] 23 [0.906] 10 [.394] 12 [.475] 24 [.945] 10.6 [.417] 23 [.921] 7 [.276] 19 [.752] 3.5 [0.138] | XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Horizontal PCB mount, Bulk Pack | Non-latching, Retention Spring | ACJC5HL BULK |
| | | 27 [1.063] 20 [0.787] 30 [1.181] 23 [0.906] 10 [.394] 12 [.475] 24 [.945] 10.6 [.417] 23 [.921] 7 [.276] 19 [.752] 3.5 [0.138] | XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Vertical PCB mount, Bulk Pack | Latching | ACJC5V BULK |
| | | 27 [1.063] 20 [0.787] 30 [1.181] 23 [0.906] 10 [.394] 11.5 [.453] 24 [.945] 3.5 [0.138] 23 [.921] 7 [.276] | XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Vertical PCB mount, Bulk Pack | Non-latching, Retention Spring | ACJC5VL BULK |
| | | 27 [1.063] 20 [0.787] 30 [1.181] 23 [0.906] 10 [.394] 12 [.475] 24 [.945] 10.6 [.417] 23 [.921] 7 [.276] 4.5 [0.177] | XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Solder Contacts, Bulk Pack | Latching | ACJC5S BULK |
| | | 27 [1.063] 20 [0.787] 30 [1.181] 23 [0.906] 10 [.394] 12 [.475] 24 [.945] 4.5 [0.177] 23 [.921] 7 [.276] | XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Solder Contacts, Bulk Pack | Non-latching, Retention Spring | ACJC5SL BULK |


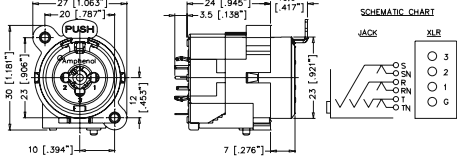

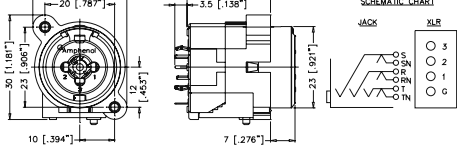

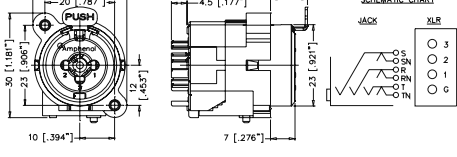

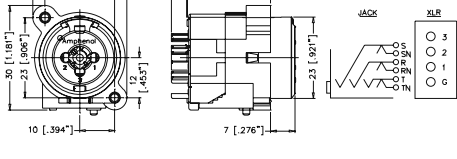

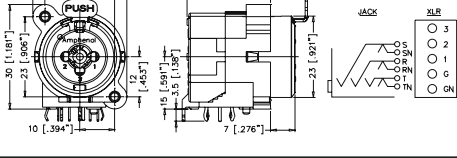

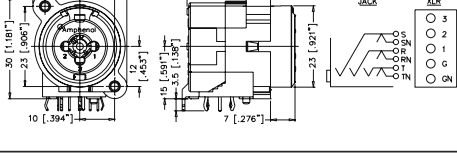

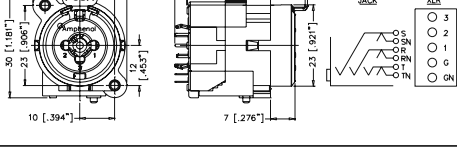

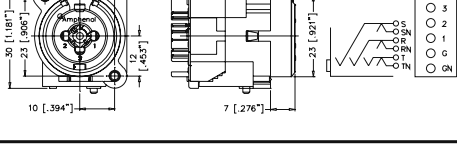
XLR Connectors

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 |


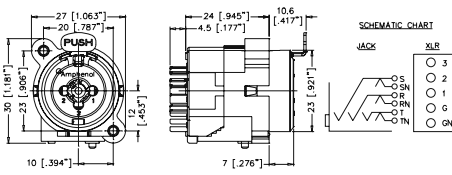

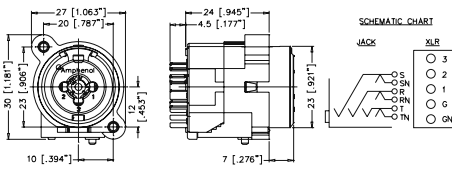
XLR Connectors

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

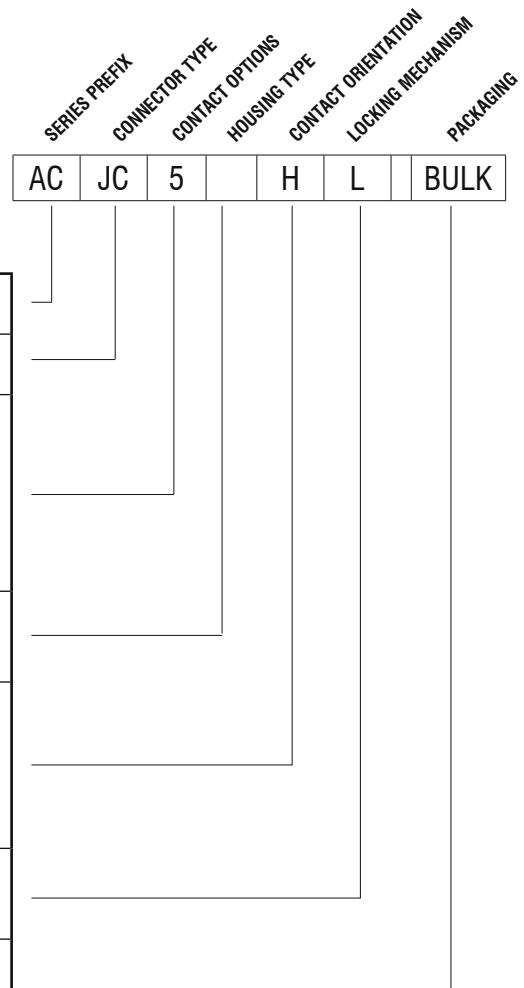
AC Series Dual 1/4" (6.35mm) / XLR Chassis Mount

| PRODUCT - FIGURE | DRAWING | DESCRIPTION | VARIATIONS | PART NUMBER |
|---|--|---|--------------------------------|---------------|
|  |  <p>Dimensions in mm (inches)</p> <p>27 [1.063"] 20 [0.787"] 10 [0.394"] 12 [0.472"] 24 [0.945"] 4.5 [0.177"] 10.6 [0.417"] 7 [0.276"] 23 [0.907"] 1.5 [0.059"]</p> <p>SCHEMATIC CHART</p> <p>JACKS</p> <p>XLR</p> <p>3 2 1 + GND</p> | XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Solder Contacts, Bulk Pack | Latching | ACJC10S BULK |
|  |  <p>Dimensions in mm (inches)</p> <p>27 [1.063"] 20 [0.787"] 10 [0.394"] 12 [0.472"] 24 [0.945"] 4.5 [0.177"] 10.6 [0.417"] 7 [0.276"] 23 [0.907"] 1.5 [0.059"]</p> <p>SCHEMATIC CHART</p> <p>JACKS</p> <p>XLR</p> <p>3 2 1 + GND</p> | XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Solder Contacts, Bulk Pack | Non-latching, Retention Spring | ACJC10SL BULK |

PART NUMBER BREAKDOWN

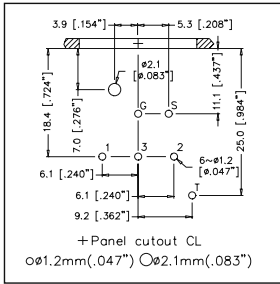
AC SERIES THERMOPLASTIC C TYPE

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

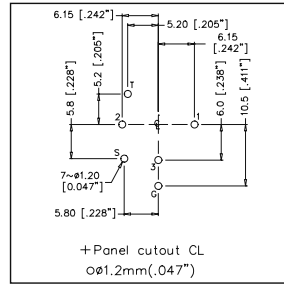


| | |
|--------------------------|---|
| SERIES PREFIX | AC = Series Prefix |
| CONNECTOR TYPE | JC = Jack / Connector XLR |
| CONTACT OPTIONS | 5 = Mono, Non Switching, XLR Grounded 6 = Stereo, Non Switching, XLR Grounded 9 = Stereo, Switching, XLR Grounded 10 = Stereo, Switching, XLR with Ground Switch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

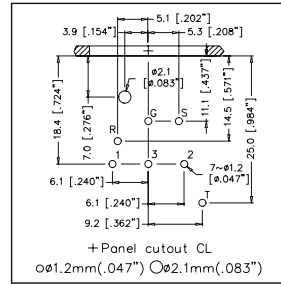
AC SERIES C TYPE SERIES



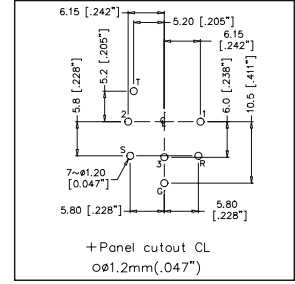
ACJC5H & ACJC5HL



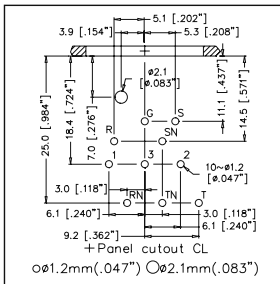
ACJC5V & ACJC5VL



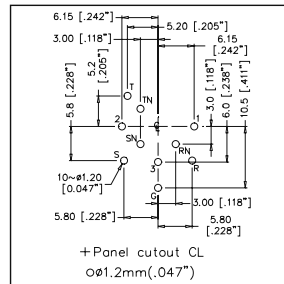
ACJC6H & ACJC6HL



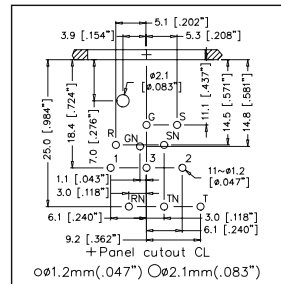
ACJC6V & ACJC6VL



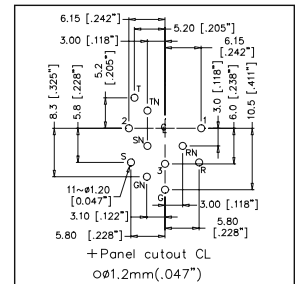
ACJC9H & ACJC9HL



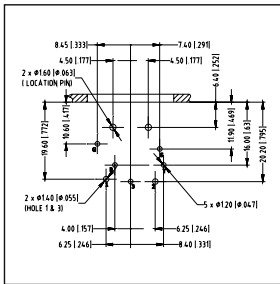
ACJC9V & ACJC9VL



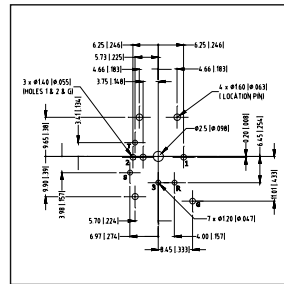
ACJC10H & ACJC10HL



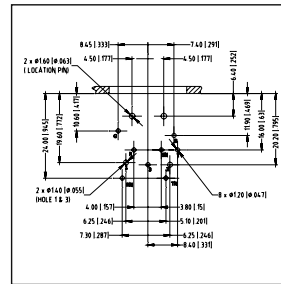
ACJC10V & ACJC10VL



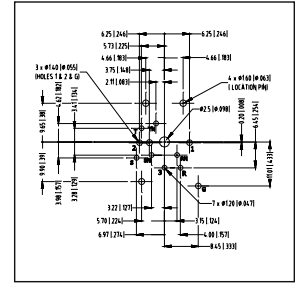
ACJC6AH & ACJC6AHL



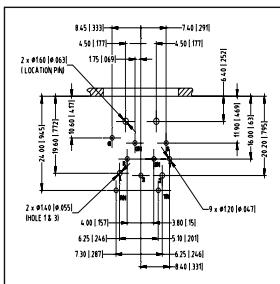
ACJC6AV2 & ACJC6AV2L



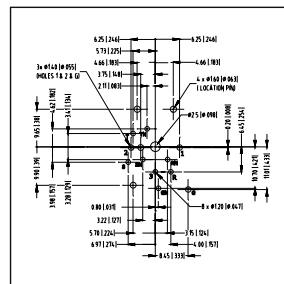
ACJC9AH & ACJC9AHL



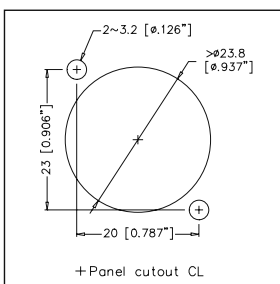
ACJC9AV2 & ACJC9AV2L



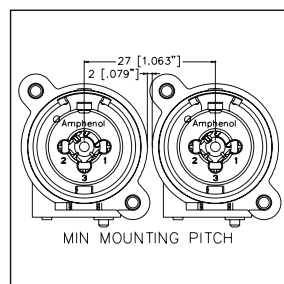
ACJC10AH & ACJC10AHL



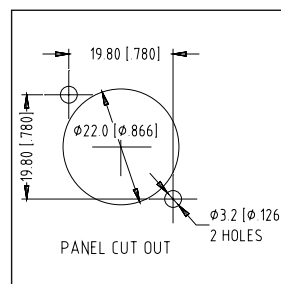
ACJC10AV2 & ACJC10AV2L



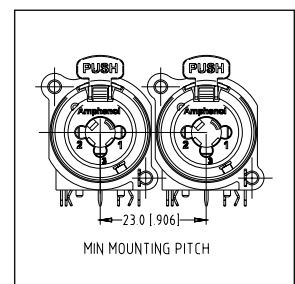
C TYPE PANEL CUTOUT



C TYPE MOUNTING PITCH



C TYPE LOW PROFILE PANEL CUTOUT



C TYPE LOW PROFILE MOUNTING PITCH

XLR Connectors

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

STANDARD DATA C TYPE CHASSIS RECEPTACLES

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

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

***Refer to Page 132

Rev 6 - 03/2013

XLR Connectors

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
- Positive latchlock
- Flexible cable grommet


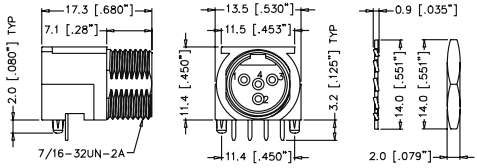

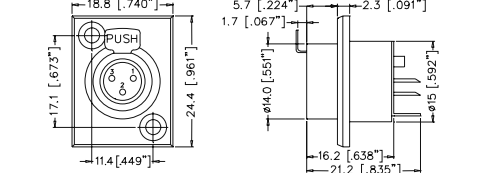
Part Number Breakdown: Page 48
PCB Footprints: Page 50

Specifications: Page 49
Panel Cutouts: Page 50

| 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 | AG3MCCCH AG4MCCCH AG5MCCCH AG6MCCCH |
| | | 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

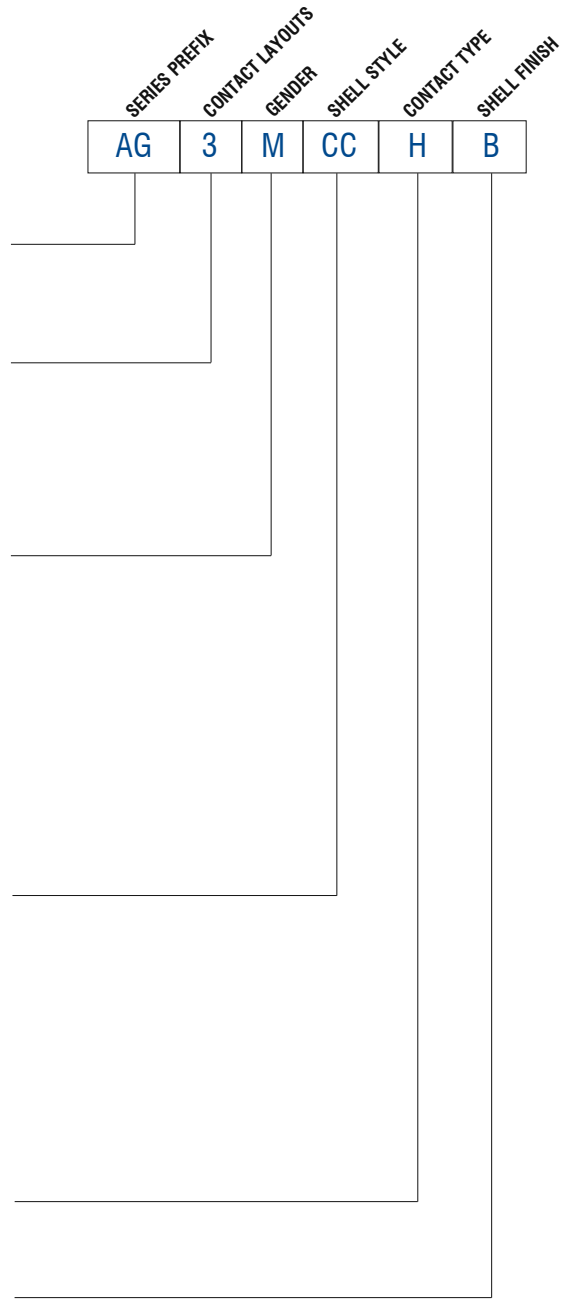
| | | | | |
|---|---|--|--------|---------|
|  |  | Male chassis connector, Horizontal PCB, Machined contacts, Thermoplastic shell | 4 pole | AG4MPCH |
|  |  | Female chassis connector, Stamped contacts, Nickel Finish | 3 pole | AG3FCRV |
| | | | 4 pole | AG4FCRV |
| | | | 5 pole | AG5FCRV |
| | | | 6 pole | 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 - 0.5mm ² | | | AWG 28 - 0.38mm 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 | | | |

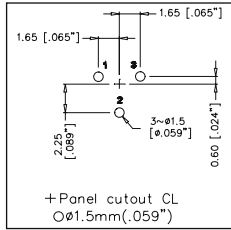
Rev 5 - 06/2017

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

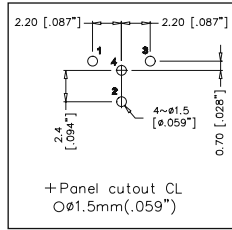
XLR Connectors

G-Type Miniature XLR Connectors

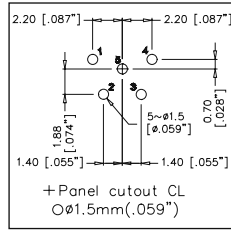
PANEL CUTOUTS - CONNECTOR SIDE OF PCB



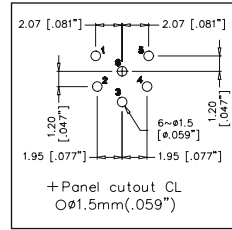
AG3MCC



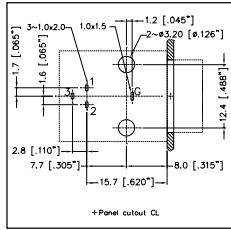
AG4MCC



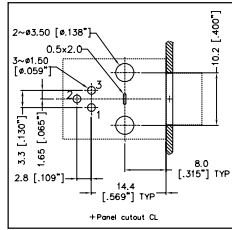
AG5MCC



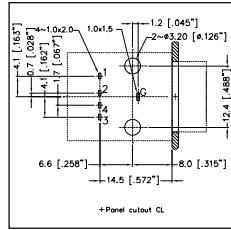
AG6MCC



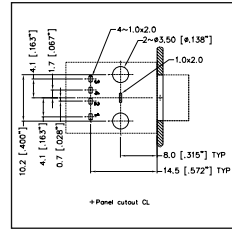
AG3FCCH



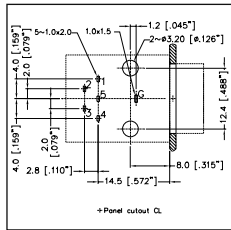
AG3MCCCH



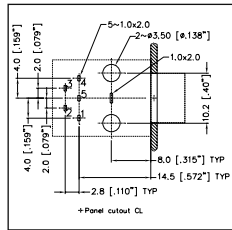
AG4FCCH



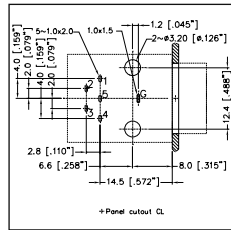
AG4MCCCH



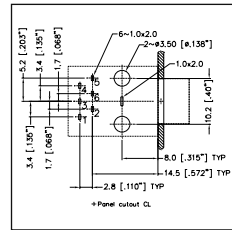
AG5FCCH



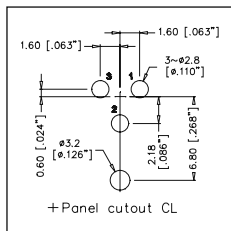
AG5MCCCH



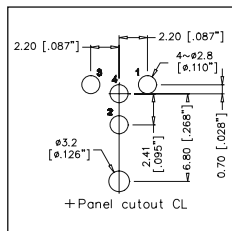
AG6FCCH



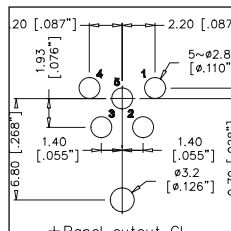
AG6MCCCH



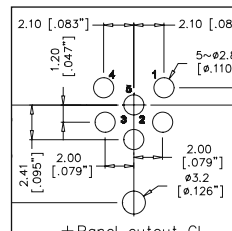
AG3FCRV



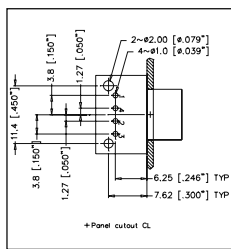
AG4FCRV



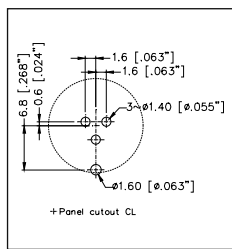
AG5FCRV



AG6FCRV

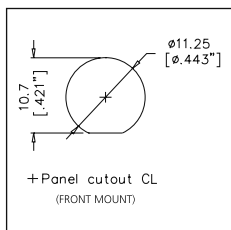


AG4MPCH

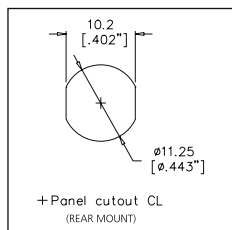


AG3FCE

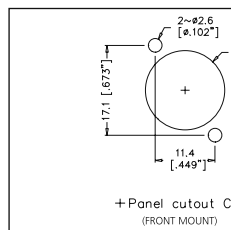
PANEL CUTOUTS - FRONT VIEW



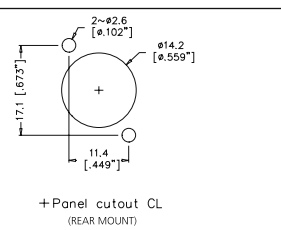
**AG3MCC
AG4MCC
AG5MCC
AG6MCC**



**AG3MCCCH
AG4MCCCH
AG5MCCCH
AG6MCCCH
AG4MPCH**



**AG3FCRV
AG4FCRV
AG5FCRV
AG6FCRV**



**AG3FCRV
AG4FCRV
AG5FCRV
AG6FCRV**

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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