

# 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

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 XLR Cable Connectors



### Features:

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

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

**Part Number Breakdown: Page 15**

**Specifications: Page 17**

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

# XLR Connectors

## AC Series XLR Cable Connectors

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

# XLR Connectors

## AC Series XLR Cable Connectors

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

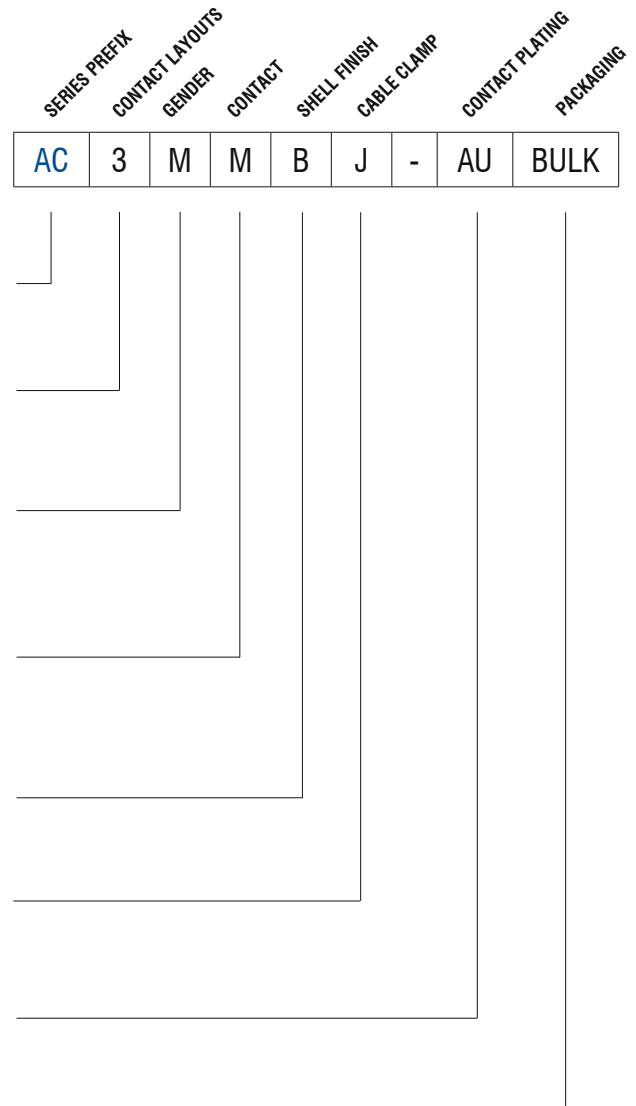
# PART NUMBER BREAKDOWN

## METAL SHELL TYPE - SOLDER

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

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

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



### Note:

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

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

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

<sup>4</sup> All AC Series Connectors are available with optional colour coded boot / backshell. Refer to page 156 and simply add colour to end of part number. Example: AC3MM - RED

# XLR Connectors

## AC Series XLR Cable Connectors



### Features:

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

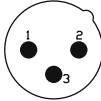
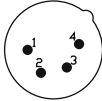
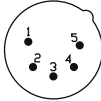
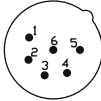
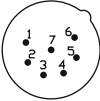
**Options:** Gold Plated Contacts, Stamped Contacts (3 Contact only), Bulk Pack, Coloured Boots / Backshells  
3, 4, 5, 6A and 7 Contacts.

**Specifications:** [Page 17](#)

| PRODUCT - FIGURE | DRAWING | DESCRIPTION                                                                         | VARIATIONS | PART NUMBER  |
|------------------|---------|-------------------------------------------------------------------------------------|------------|--------------|
|                  |         | XLR 3 pole male,<br>Machined contacts,<br>Thermoplastic shell,<br>Jaws cable clamp  | Standard   | AC3MMCP      |
|                  |         |                                                                                     | Bulk Pack  | AC3MMCP BULK |
|                  |         | XLR 3 pole male,<br>Stamped contacts,<br>Thermoplastic shell,<br>Jaws cable clamp   | Standard   | AC3MCP       |
|                  |         |                                                                                     | Bulk Pack  | AC3MCP BULK  |
|                  |         | XLR 3 pole female,<br>Stamped contacts,<br>Thermoplastic shell,<br>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<br>(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 <sup>1</sup>                                                                 |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                                                 | Test Voltage AC RMS                                           |                                                                                               | 1400V                                                                             |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                                                 | Current carrying capacity: Solder                             |                                                                                               | 15A                                                                               | 10A                                                                               | 7.5A                                                                                |                                                                                     | 5A                                                                                  |
|                                                 | Typical Contact Resistance                                    |                                                                                               | ≤3mΩ                                                                              |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                                                 | Insulation Resistance                                         |                                                                                               | ≥1GΩ                                                                              |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| CLIMATIC CHARACTERISTICS                        | Protection Class                                              |                                                                                               | IP40                                                                              |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                                                 | Operating Temperature                                         |                                                                                               | -25°C to +75°C (-13°F to +167°F)                                                  |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| MECHANICAL CHARACTERISTICS                      | Insertion and Withdrawal force                                |                                                                                               | ≥10N - ≤30N                                                                       |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                                                 | Weight - Metal <sup>2</sup>                                   |                                                                                               | 36g<br>(0.080lb)                                                                  | 37g<br>(0.081lb)                                                                  | 38g<br>(0.083lb)                                                                    |                                                                                     |                                                                                     |
|                                                 | Weight - Thermoplastic <sup>2</sup>                           |                                                                                               | 18g<br>(0.039lb)                                                                  | 19g<br>(0.041lb)                                                                  | 20g<br>(0.044lb)                                                                    |                                                                                     |                                                                                     |
|                                                 | Typical Cable retention force                                 |                                                                                               | 22Kg to 44Kg (50lb to 100lb) - Dependent on cable material and diameter.          |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                                                 | Cable O.D. range<br>- JAWS clamp                              | Standard<br>Large                                                                             | 3mm to 6.5mm (0.118" to 0.255")<br>6.5mm to 8mm ( 0.255" to 0.314")               |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                                                 | Mechanical Operations                                         |                                                                                               | 1000 mating cycles                                                                |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                                                 | MATERIALS                                                     | Connector shell - Metal<br>Shell finish                                                       |                                                                                   | Diecast Zinc Alloy<br>Satin nickel or Black polyester                             |                                                                                     |                                                                                     |                                                                                     |
| Connector shell - Thermoplastic<br>Shell finish |                                                               | Thermoplastic, UL94V-0 Modified PPE Resin<br>Black                                            |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Insulators                                      |                                                               | UL94V-0 PBT Resin or Modified PPE Resin                                                       |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Boot / Backshell<br>Finish                      |                                                               | UL94V-0 Modified PPE Resin or Machined Brass<br>Black, other colours available - see page 156 |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Cable clamp<br>(JAWS)                           |                                                               | Standard Solder<br>Large Solder                                                               | UL94V-0 Modified PPO Resin (Black)<br>UL94V-0 Modified PPO Resin (Purple)         |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Cable Bushing                                   |                                                               | Santoprene                                                                                    |                                                                                   |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Male Contact<br>(Solder / Plating)              |                                                               | Stamped<br>Machined                                                                           | Phosphor Bronze / Silver or Gold (Optional)<br>Brass / Silver or Gold (Optional)  |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| Female Contact<br>(Solder / Plating)            |                                                               | Stamped<br>Machined                                                                           | Phosphor Bronze / Tin or Gold (Optional)<br>Brass / Silver or Gold (Optional)     |                                                                                   |                                                                                     |                                                                                     |                                                                                     |

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

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