# 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 or clear 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 2.5mm$^2$ (14AWG) 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.

## Options

- Coloured I.D sleeves.
- Clear I.D Sleeve for connector marking.
- 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.

# Amphenol

## 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 2.5mm² (14AWG) solder buckets to reduce soldering time and wastage.
- Zinc diecast shell housing with Satin nickel or Matt black finish.

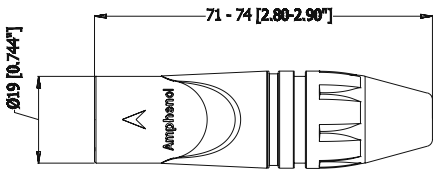
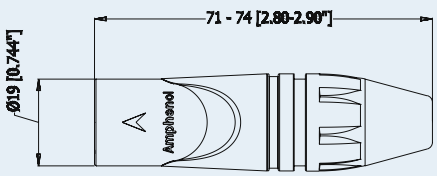
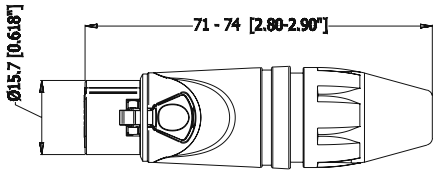
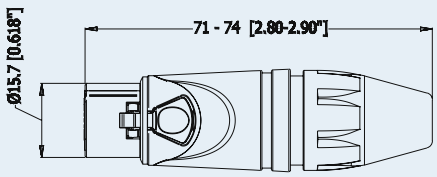
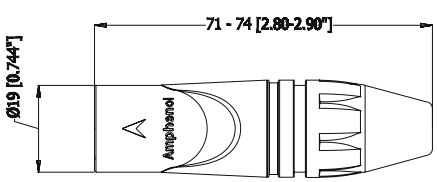
## Options:

- Coloured I.D sleeves.
- Clear I.D Sleeve for connector marking.
- Satin nickel or Matt black shell finish.
- Single or Bulk packaging.

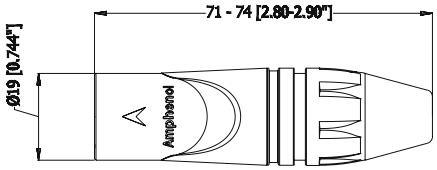
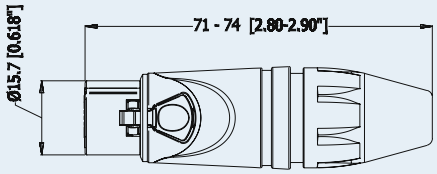
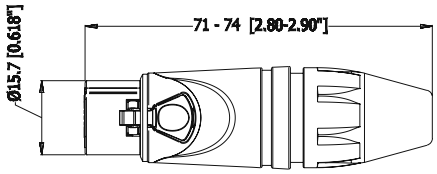
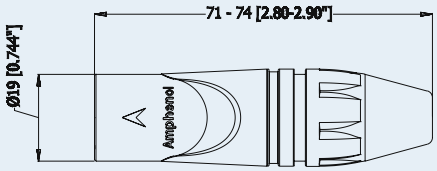
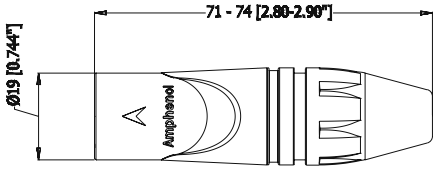
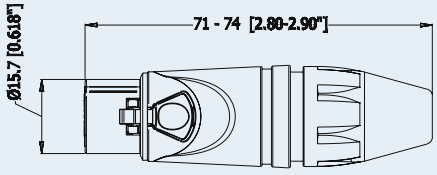
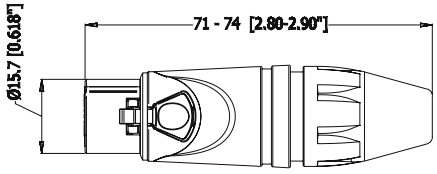
**Part Number Breakdown: Page 6**

**Specifications: Page 7**

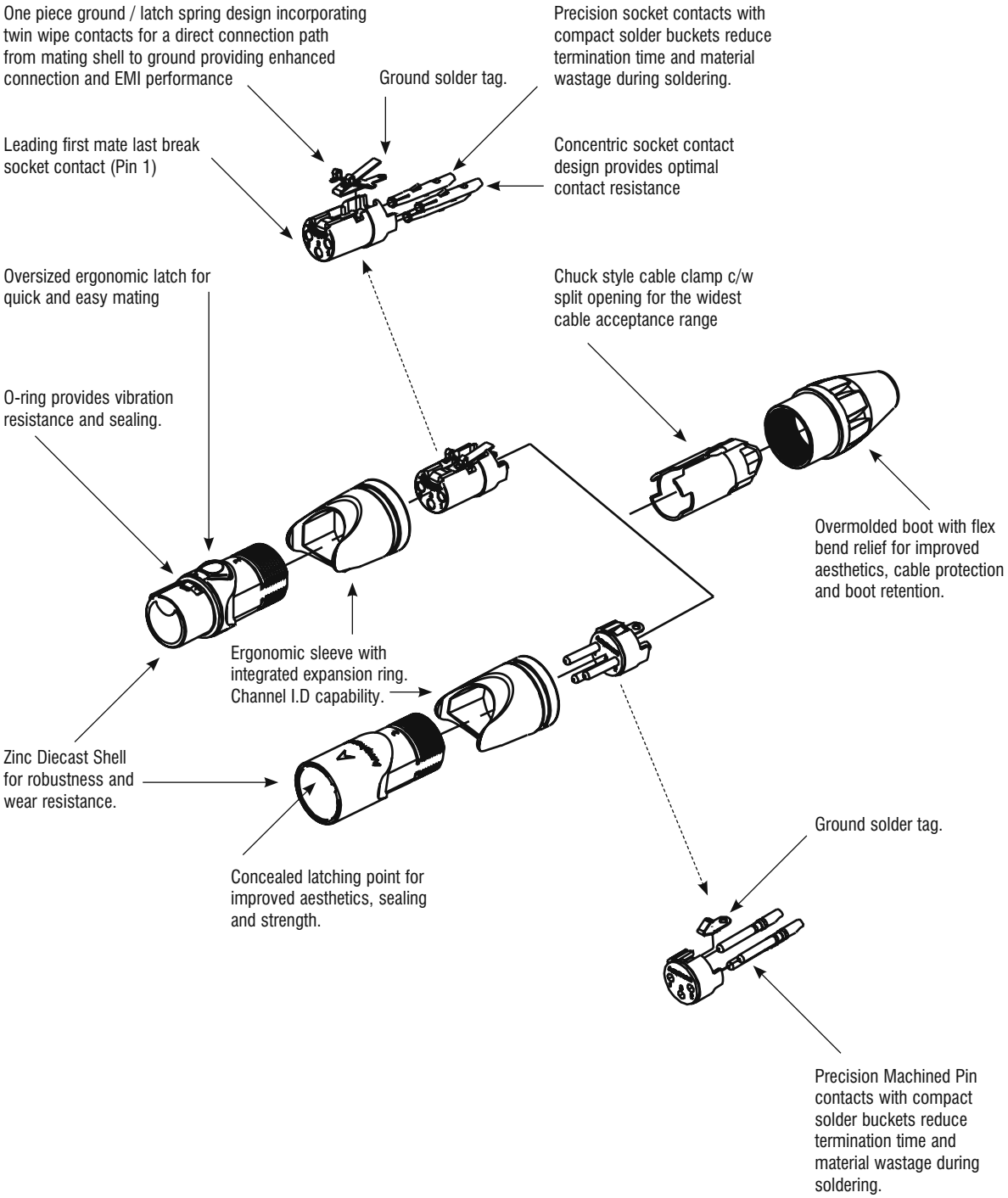
**Assembly Instructions: PI538***

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

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

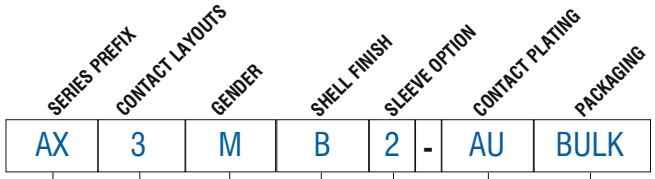
| PRODUCT - FIGURE | DRAWING Dimensions in mm (inches) | DESCRIPTION | VARIATIONS | PART NUMBER |
|---|---|---|---|---|
| |   | XLR 4 pole male Machined contacts Black Finish | Standard | AX4MB |
| | | | Gold Plated Contacts | AX4MB-AU |
| | | | Bulk Pack | AX4MB BULK |
| |   | XLR 4 pole female Machined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

## ISO VIEW OF AX SERIES XLR CABLE CONNECTOR



# PART NUMBER BREAKDOWN

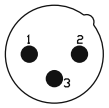
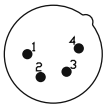
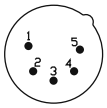
## METAL SHELL TYPE - SOLDER




E. G . **AX3MB2-AU BULK**
**AX** (Series Prefix), **3** contacts, **M**ale, **B**lack Finish,
**2** (Red Sleeve)- **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 OPTION** | 1 | = | Brown |
| | 2 | = | Red |
| | 3 | = | Orange |
| | 4 | = | Yellow |
| | 5 | = | Green |
| | 6 | = | Blue |
| | 7 | = | Violet |
| | 8 | = | Grey |
| | 9 | = | White |
| | C | = | Clear |
| **CONTACT PLATING** | Blank | = | Standard Plating ( Silver or Tin - Refer to Standard Data.) |
| | AU | = | Gold Plated |
| **PACKAGING** | Blank | = | Individual Bags |
| | BULK | = | Bulk Packed |

# STANDARD DATA AX SERIES CABLE CONNECTORS

| | | VALUE | | |
|---|---|---|---|---|
| **GENERAL CHARACTERISTICS** | Number of contacts | 3 | 4 | 5 |
| | AC 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 RoHS Directive 2002/95/EC | | |
| **ELECTRICAL CHARACTERISTICS** | Service Voltage RMS | 133V [1] | | |
| | Test Voltage AC RMS | 1400V | | |
| | Current carrying capacity: Solder | 15A | 10A | 7.5A |
| | Typicial 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<br>Shell finish | Diecast Zinc Alloy<br>Satin nickel or Black | | |
| | Insulators | UL94V-0 PA66, 30% Glass Filled | | |
| | Boot / Backshell<br>Finish | UL94V-0 Noryl N190 / Santoprene<br>Black, other colours available - see page 80 | | |
| | Cable clamp | Noryl N190 | | |
| | Sleeve | Noryl N190 | | |
| | Male Contact<br>Machined - Solder / Plating | Brass / Silver or Gold (Optional) | | |
| | Female Contact<br>Stamped - Solder / Plating | Phosphor Bronze / Tin or Gold (Optional) | | |

[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.

# OCEAN CHIPS
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## Поставка электронных компонентов

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
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- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «**JONHON**», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «**FORSTAR**».

AVIC JONHON

**«JONHON»** (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

**«FORSTAR»** (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).

FORSTAR®

Телефон: 8 (812) 309-75-97 (многоканальный)
Факс: 8 (812) 320-03-32
Электронная почта: ocean@oceanchips.ru
Web: http://oceanchips.ru/
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А