

## ISO VIEW OF AX SERIES XLR CABLE CONNECTOR

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

Precision socket contacts with compact solder buckets reduce termination time and material wastage during soldering.

Leading first mate last break socket contact (Pin 1)

Concentric socket contact design provides optimal contact resistance

Oversized ergonomic latch for quick and easy mating

Chuck style cable clamp c/w split opening for the widest cable acceptance range

O-ring provides vibration resistance and sealing.

Overmolded boot with flex bend relief for improved aesthetics, cable protection and boot retention.

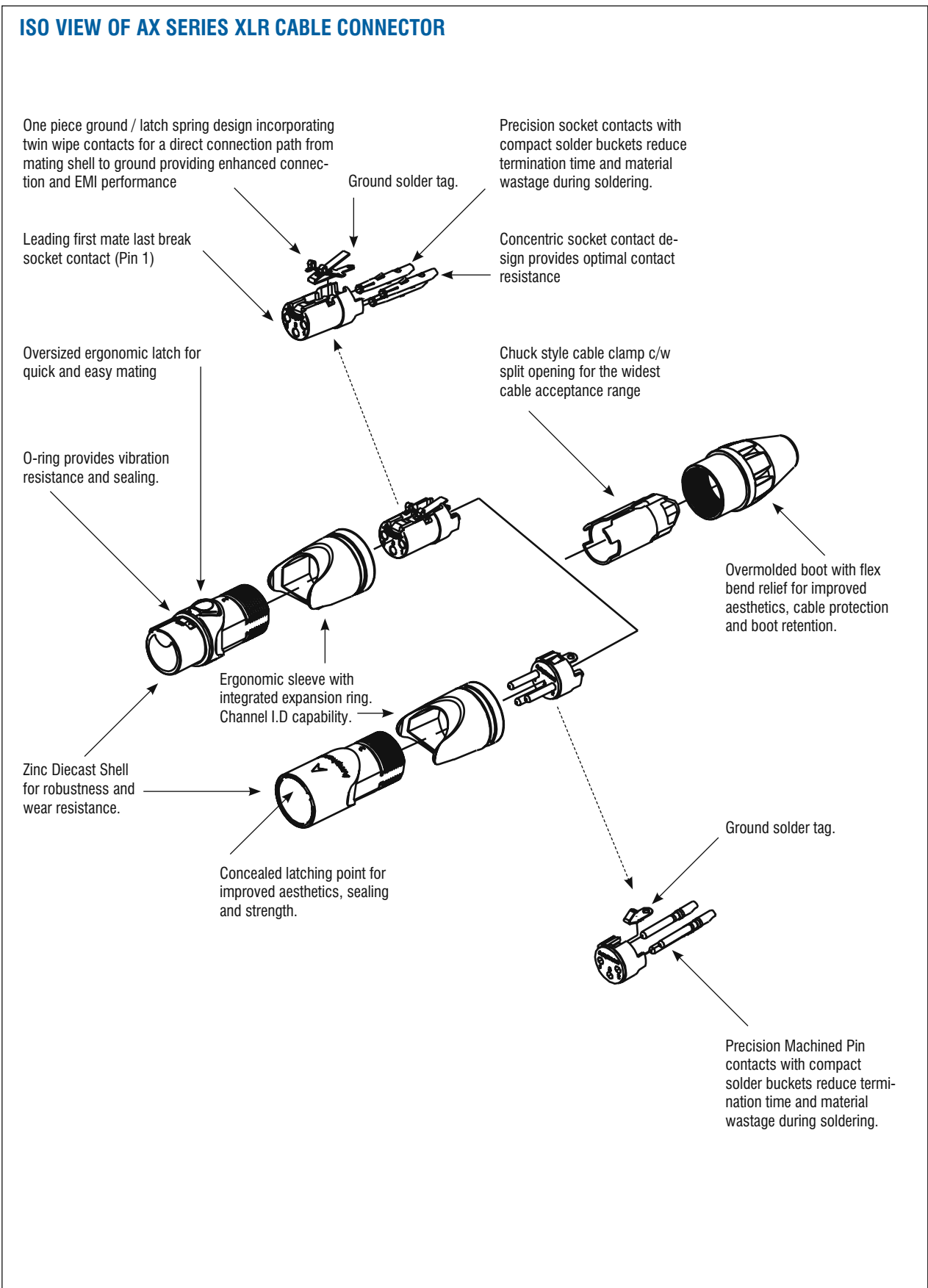
Ergonomic sleeve with integrated expansion ring. Channel I.D capability.

Zinc Diecast Shell for robustness and wear resistance.

Concealed latching point for improved aesthetics, sealing and strength.

Ground solder tag.

Precision Machined Pin contacts with compact solder buckets reduce termination time and material wastage during soldering.





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

## Features

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

## Options

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

## Ordering Codes

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

## AX SERIES XLR CABLE CONNECTORS



### Simple steps to guide you in using this catalogue

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



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

\*PI538 is available for download at [www.amphenolaudio.com](http://www.amphenolaudio.com)



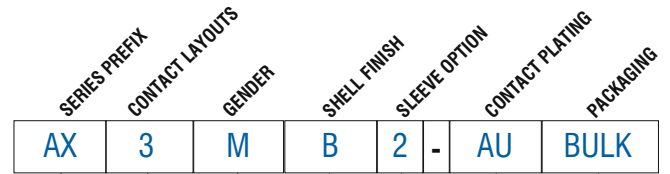
| PRODUCT - FIGURE | DRAWING<br>Dimensions in mm (inches) | DESCRIPTION   | VARIATIONS           | PART NUMBER |
|------------------|--------------------------------------|---|----------------------|-------------|
|                  |                                      | XLR 4 pole male<br>Machined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



## PART NUMBER BREAKDOWN

### METAL SHELL TYPE - SOLDER

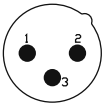
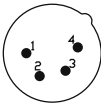
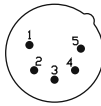
E. G. **AX3MB2-AU BULK**  
**AX** (Series Prefix), **3** contacts, **M**ale, **B**lack Finish,  
**2** (Red Sleeve)- **AU** (Gold Plated Contacts), **BULK** Packaged.



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

## STANDARD DATA AX SERIES CABLE CONNECTORS



|                                   |   | VALUE   |   |   |
|-----------------------------------|---|---|---|---|
| <b>GENERAL CHARACTERISTICS</b>    | Number of contacts  | 3   | 4   | 5   |
|                                   | AX Series Contact Arrangements<br>(Front view of pin inserts) |  |  |  |
|                                   | Termination   | SOLDER  |   |   |
|                                   | Max. Wire Gauge - Stranded wire:<br>Solder                    | 14AWG   | 16AWG   | 18AWG   |
|                                   | Flammability rating of insulator plastics<br>and housings     | UL94V-0   |   |   |
| Environmental                     | Complies with EU RoHS 2 Directive 2011/65/EU                  |   |   |   |
| <b>ELECTRICAL CHARACTERISTICS</b> | Service Voltage RMS   | 133V <sup>1)</sup>  |   |   |
|                                   | Test Voltage AC RMS   | 1400V   |   |   |
|                                   | Current carrying capacity:<br>Solder                          | 15A   | 10A   | 7.5A  |
|                                   | Typical Contact Resistance                                    | ≤3m Ω   |   |   |
|                                   | Insulation Resistance   | ≥1G Ω   |   |   |
| <b>CLIMATIC CHARACTERISTICS</b>   | Protection Class  | IP40  |   |   |
|                                   | Operating Temperature   | -25 °C to +75 °C (-13°F to +167°F)  |   |   |
| <b>MECHANICAL CHARACTERISTICS</b> | Insertion and Withdrawal force                                | ≥10N - ≤30N   |   |   |
|                                   | Weight <sup>2)</sup>  | 31g<br>(0.068lb)  | 33g<br>(0.073lb)  | 33g<br>(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  |   |   |
| <b>MATERIALS</b>                  | 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)  |   |   |

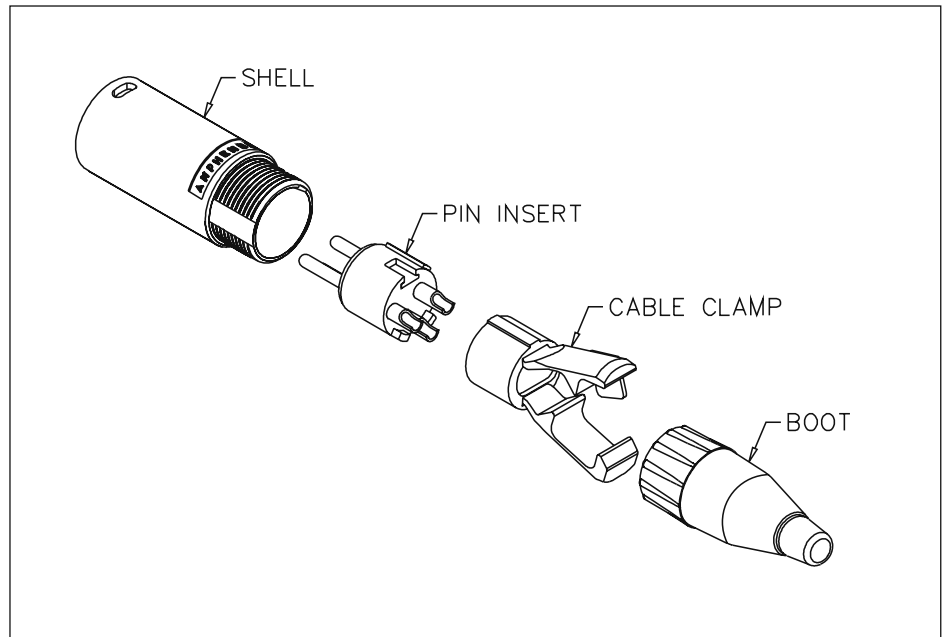
Rev 3 - 03/2013

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

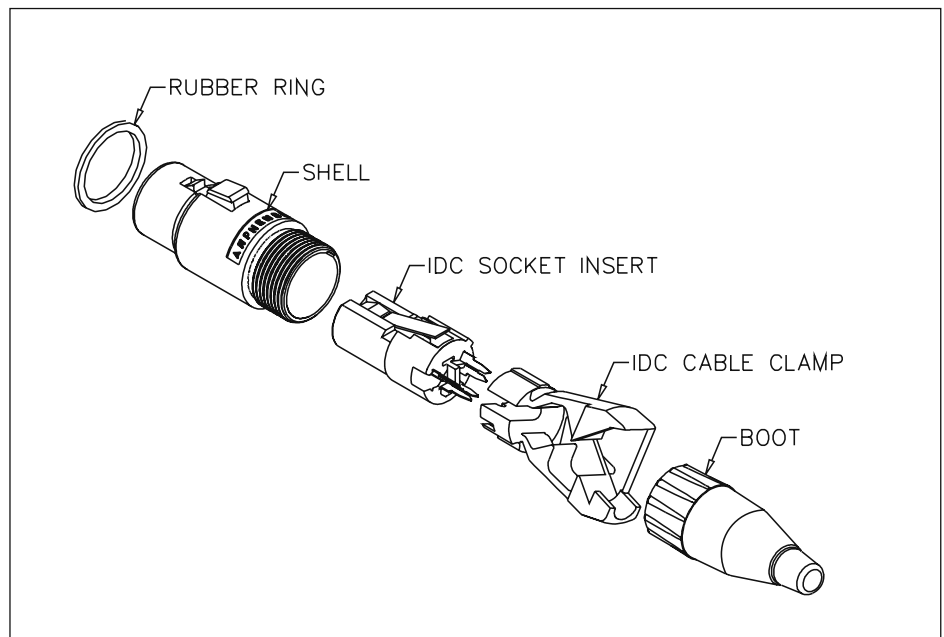
<sup>2)</sup> Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.

# Amphenol

## ISO VIEW OF AC3MM



## ISO VIEW OF AC3FI



**AMPHENOL AUSTRALIA WEBSITE**

[www.amphenolaudio.com](http://www.amphenolaudio.com)

**AMPHENOL WORLD HEADQUARTERS WEBSITE**

[www.amphenol.com](http://www.amphenol.com)

# Amphenol



## AC SERIES XLR CABLE CONNECTORS



Amphenol Australia have been manufacturing and designing innovative XLR connectors since 1955 and were the first to offer the cost saving Insulation Displacement Contact (IDC) in an XLR connector. The IDC connector is ideal for Original Equipment Manufacturers and end users alike and offers an alternative to our standard solder connector. 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 for both standard Solder connectors and the Insulation Displacement Contact (IDC) connectors.
- 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.
- Solderless IDC technology offers savings of up to 60% in termination time.
- 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 other XLR brands.

### Options

- Solder Bucket termination
- Insulation Displacement Contact (IDC)
- 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

### Options (Cont'd)

- 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")
- IDC Jaws cable clamp, Max. Cable O.D 5.85mm (0.23")
- 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")

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# Amphenol


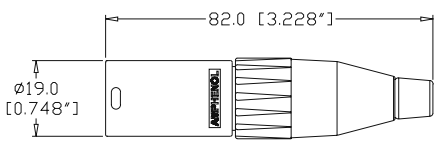

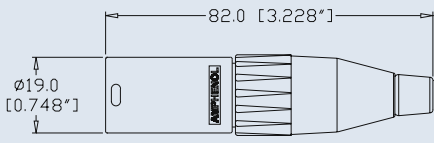

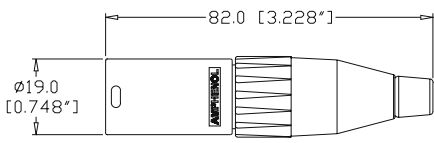

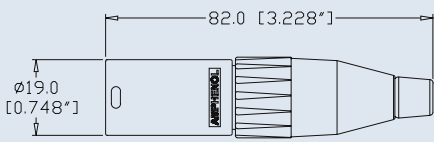

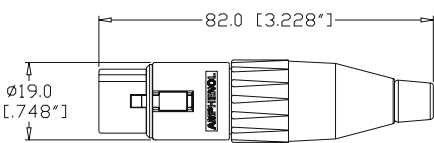

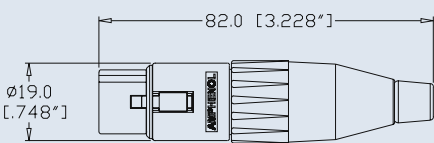

**Features:**

- 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.)


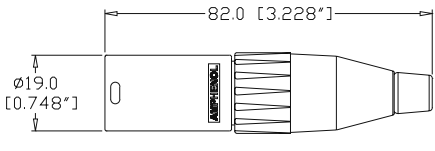

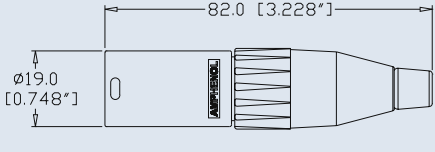

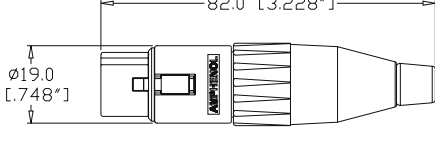

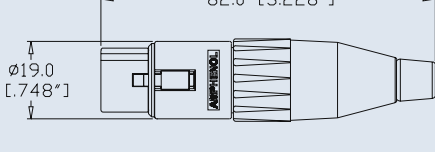

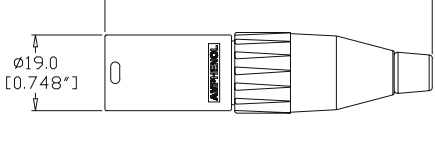

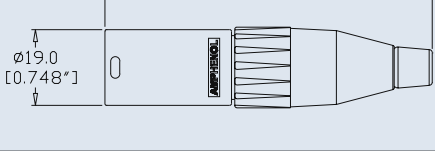

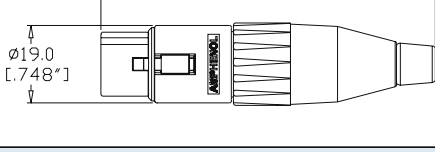

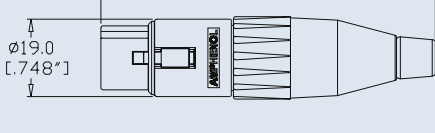
**Options:** Stamped Contacts (3 contact only), Gold plated contacts, Large or Small Jaws Cable Clamp, Black Finish Shell, Bulk Pack, Coloured Boots / Backshells

**Part Number Breakdown:** [page 13](#)

**Specifications:** [page 20](#)










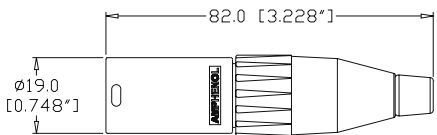

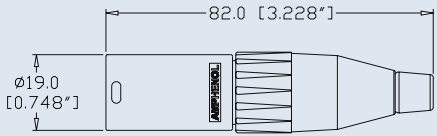

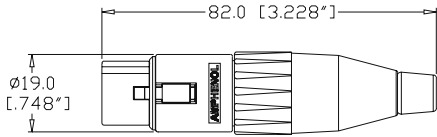

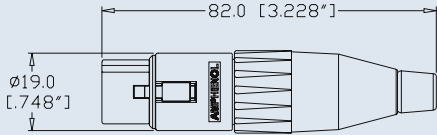
| PRODUCT - FIGURE  | DRAWING   | DESCRIPTION  | VARIATIONS   | PART NUMBER   |
|---|---|--|--|---|
|    |    | XLR 3 pole male, Machined contacts, Nickel Finish, Jaws cable clamp  | <a href="#">Standard</a><br><a href="#">Gold Plated Contacts</a><br><a href="#">Large Cable Clamp</a><br><a href="#">Bulk Pack</a> | <a href="#">AC3MM</a><br><a href="#">AC3MM-AU</a><br><a href="#">AC3MMJ</a><br><a href="#">AC3MM BULK</a>     |
|  |  | XLR 3 pole male, Machined contacts, Black Finish, Jaws cable clamp   | <a href="#">Standard</a><br><a href="#">Gold Plated Contacts</a><br><a href="#">Large Cable Clamp</a><br><a href="#">Bulk Pack</a> | <a href="#">AC3MMB</a><br><a href="#">AC3MMB-AU</a><br><a href="#">AC3MMBJ</a><br><a href="#">AC3MMB BULK</a> |
|  |  | XLR 3 pole male, Stamped contacts, Nickel Finish, Jaws cable clamp   | <a href="#">Standard</a><br><a href="#">Gold Plated Contacts</a><br><a href="#">Large Cable Clamp</a><br><a href="#">Bulk Pack</a> | <a href="#">AC3M</a><br><a href="#">AC3M-AU</a><br><a href="#">AC3MJ</a><br><a href="#">AC3M BULK</a>         |
|  |  | XLR 3 pole male, Stamped contacts, Black Finish, Jaws cable clamp    | <a href="#">Standard</a><br><a href="#">Gold Plated Contacts</a><br><a href="#">Large Cable Clamp</a><br><a href="#">Bulk Pack</a> | <a href="#">AC3MB</a><br><a href="#">AC3MB-AU</a><br><a href="#">AC3MBJ</a><br><a href="#">AC3MB BULK</a>     |
|  |  | XLR 3 pole female, Stamped contacts, Nickel Finish, Jaws cable clamp | <a href="#">Standard</a><br><a href="#">Gold Plated Contacts</a><br><a href="#">Large Cable Clamp</a><br><a href="#">Bulk Pack</a> | <a href="#">AC3F</a><br><a href="#">AC3F-AU</a><br><a href="#">AC3FJ</a><br><a href="#">AC3F BULK</a>         |
|  |  | XLR 3 pole female, Stamped contacts, Black Finish, Jaws cable clamp  | <a href="#">Standard</a><br><a href="#">Gold Plated Contacts</a><br><a href="#">Large Cable Clamp</a><br><a href="#">Bulk Pack</a> | <a href="#">AC3FB</a><br><a href="#">AC3FB-AU</a><br><a href="#">AC3FBJ</a><br><a href="#">AC3FB BULK</a>     |

# Amphenol

| 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        |
|   |   |  | Gold Plated Contacts | AC4M-AU     |
|   |   |  | 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      |
|   |   |  | Bulk Pack            | AC4MB BULK  |
|    |    | XLR 4 pole female,<br>Machined contacts,<br>Nickel Finish,<br>Jaws cable clamp | Standard             | AC4F        |
|   |   |  | Gold Plated Contacts | AC4F-AU     |
|   |   |  | 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      |
|   |   |  | Bulk Pack            | AC4FB BULK  |
|  |  | XLR 5 pole male,<br>Machined contacts,<br>Nickel Finish,<br>Jaws cable clamp   | Standard             | AC5M        |
|   |   |  | Gold Plated Contacts | AC5M-AU     |
|   |   |  | 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      |
|   |   |  | Bulk Pack            | AC5MB BULK  |
|  |  | XLR 5 pole female,<br>Machined contacts,<br>Nickel Finish,<br>Jaws cable clamp | Standard             | AC5F        |
|   |   |  | Gold Plated Contacts | AC5F-AU     |
|   |   |  | 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      |
|   |   |  | Bulk Pack            | AC5FB BULK  |



# Amphenol

| 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       |
|   |   |   | Gold Plated Contacts | AC6AM-AU    |
|   |   |   | 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     |
|   |   |   | Bulk Pack            | AC6AMB BULK |
|    |    | XLR 6A pole female,<br>Machined contacts,<br>Nickel Finish,<br>Jaws cable clamp               | Standard             | AC6AF       |
|   |   |   | Gold Plated Contacts | AC6AF-AU    |
|   |   |   | 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     |
|   |   |   | Bulk Pack            | AC6AFB BULK |
|  |  | 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  |

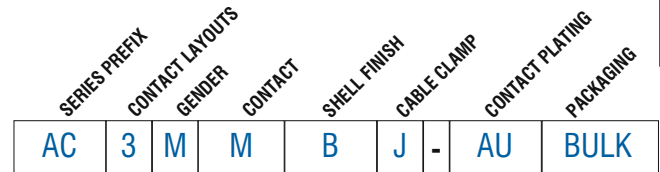
# Amphenol

## PART NUMBER BREAKDOWN

### METAL SHELL TYPE - SOLDER



E. G. **AC3MMBJ-AU BULK**  
**AC** (Series Prefix), **3** contacts, **Male**, **M** Machined Contacts, **Black** 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</b> <sup>1</sup>         | Blank | = | Stamped Contacts  |
|                                     | M     | = | Machined Contacts   |
|                                     | G     | = | Stamped Contacts, Ground Tag  |
|                                     | MG    | = | Machined Contacts, Ground Tag<br>(Applicable 3 male pin contacts, option M and MG only) |
| <b>SHELL FINISH</b> <sup>2</sup>    | Blank | = | Nickel Plated Finish  |
|                                     | B     | = | Black Polyester Finish  |
| <b>CABLE CLAMP</b>                  | Blank | = | Standard Jaws 3 mm - 6.5 mm<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</b> <sup>3</sup> | 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 137 and simply add colour to end of part number. Example: AC3MM - RED






**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.)

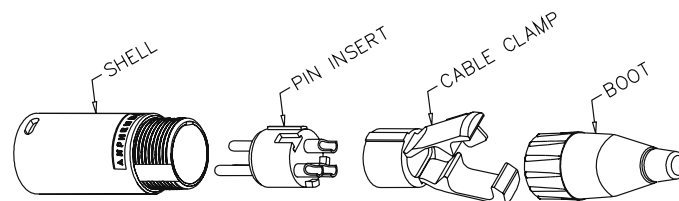
**Options:** Gold Plated Contacts, Stamped Contacts (3 Contact only), Bulk Pack, Coloured Boots / Backshells  
3, 4, 5, 6A and 7 Contacts.

**Specifications: page 20**

| PRODUCT - FIGURE  | DRAWING | DESCRIPTION  | VARIATIONS           | PART NUMBER  |
|---|---------|--|----------------------|--------------|
|    |         | XLR 3 pole male, Machined contacts, Thermoplastic shell, Jaws cable clamp  | Standard             | AC3MMCP      |
|   |         |  | Gold Plated Contacts | AC3MMCP-AU   |
|   |         |  | Large Cable Clamp    | AC3MMCPJ     |
|   |         |  | Bulk Pack            | AC3MMCP BULK |
|  |         | XLR 3 pole male, Stamped contacts, Thermoplastic shell, Jaws cable clamp   | Standard             | AC3MCP       |
|   |         |  | Gold Plated Contacts | AC3MCP-AU    |
|   |         |  | Large Cable Clamp    | AC3MCPJ      |
|   |         |  | Bulk Pack            | AC3MCP BULK  |
|  |         | XLR 3 pole female, Stamped contacts, Thermoplastic shell, Jaws cable clamp | Standard             | AC3FCP       |
|   |         |  | Gold Plated Contacts | AC3FCP-AU    |
|   |         |  | Large Cable Clamp    | AC3FCPJ      |
|   |         |  | Bulk Pack            | AC3FCP BULK  |

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

**ISO VIEW OF AC3MM**



## METAL SHELL TYPE RIGHT ANGLE - SOLDER



### Features:

- XLR 90° right angle
- Metal or Thermoplastic connector shell
- Thermoplastic 90° right angle backshell
- Solder bucket connections
- "Jaws"™ Cable Retention System
- Contact Layouts in 3, 4, 5, 6A and 7
- Precision machined pin contacts
- Leading first mate last break socket contact

Specifications: [page 20](#)

Assembly Tooling: [page 137](#)

**NOTE\*** Connector assembly requires the use of assembly tool T2880. Please refer to assembly instruction PI540\* for details. The connector is non-servicable once assembled.



| PRODUCT - FIGURE | DRAWING | DESCRIPTION  | VARIATIONS | PART NUMBER |
|------------------|---------|--|------------|-------------|
|                  |         | XLR 90° right angle female, Metal shell, Nickel Finish, Jaws cable clamp | 3 pole     | AC3FR       |
|                  |         |  | 4 pole     | AC4FR       |
|                  |         |  | 5 pole     | AC5FR       |
|                  |         |  | 6A pole    | AC6AFR      |
|                  |         |  | 7 pole     | AC7FR       |
|                  |         | XLR 90° right angle male, Metal shell, Nickel Finish, Jaws cable clamp   | 3 pole     | AC3MMR      |
|                  |         |  | 4 pole     | AC4MR       |
|                  |         |  | 5 pole     | AC5MR       |
|                  |         |  | 6A pole    | AC6AMR      |
|                  |         |  | 7 pole     | AC7MR       |

\*PI540 is available for download at [www.amphenolaudio.com](http://www.amphenolaudio.com)

# Amphenol

## METAL SHELL TYPE - IDC (SOLDERLESS)



The Insulation Displacement Contact (IDC) connector is ideal for Original Equipment Manufacturers and end users alike and offers an alternative to our standard solder connector. Connectors can be quickly and easily assembled without screws or a soldering iron – by hand or portable termination tool. (Part number T2860.)

Labour savings of up to 60% in termination time can be achieved.

**Recommended Cable Dimensions: page 21**

**Features:**

- Zinc Diecast Shell
- Available in 3 Contact only.
- Insulation Displacement Contacts (IDC - Solderless).
- “Jaws” Cable Retention System.
- Leading first mate last break socket contact.

**Options:** Gold plated contacts, Black Finish Shell, Bulk Pack, Coloured Boots / Backshells.

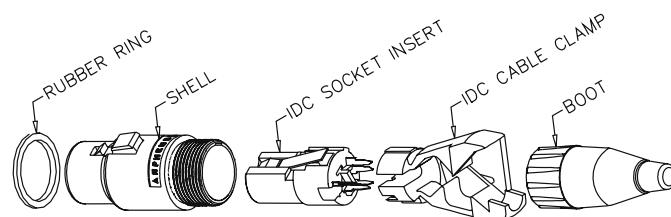
**Specifications: page 20**

**Assembly Instructions: page 19**

| PRODUCT - FIGURE | DRAWING | DESCRIPTION  | VARIATIONS           | PART NUMBER |
|------------------|---------|--|----------------------|-------------|
|                  |         | XLR 3 pole male, IDC contacts, Nickel Finish, IDC Jaws cable clamp   | Standard             | AC3MI       |
|                  |         |  | Gold Plated Contacts | AC3MI-AU    |
|                  |         |  | Bulk Pack            | AC3MI BULK  |
|                  |         | XLR 3 pole male, IDC contacts, Black Finish, IDC Jaws cable clamp    | Standard             | AC3MIB      |
|                  |         |  | Gold Plated Contacts | AC3MIB-AU   |
|                  |         |  | Bulk Pack            | AC3MIB BULK |
|                  |         | XLR 3 pole female, IDC contacts, Nickel Finish, IDC Jaws cable clamp | Standard             | AC3FI       |
|                  |         |  | Gold Plated Contacts | AC3FI-AU    |
|                  |         |  | Bulk Pack            | AC3FI BULK  |
|                  |         | XLR 3 pole female, IDC contacts, Black Finish, IDC Jaws cable clamp  | Standard             | AC3FIB      |
|                  |         |  | Gold Plated Contacts | AC3FIB-AU   |
|                  |         |  | Bulk Pack            | AC3FIB BULK |

**Note:** Amphenol can not guarantee the termination performance unless the recommended cable dimensions listed on page 21 are followed.

### ISO VIEW OF AC3FI



# Amphenol

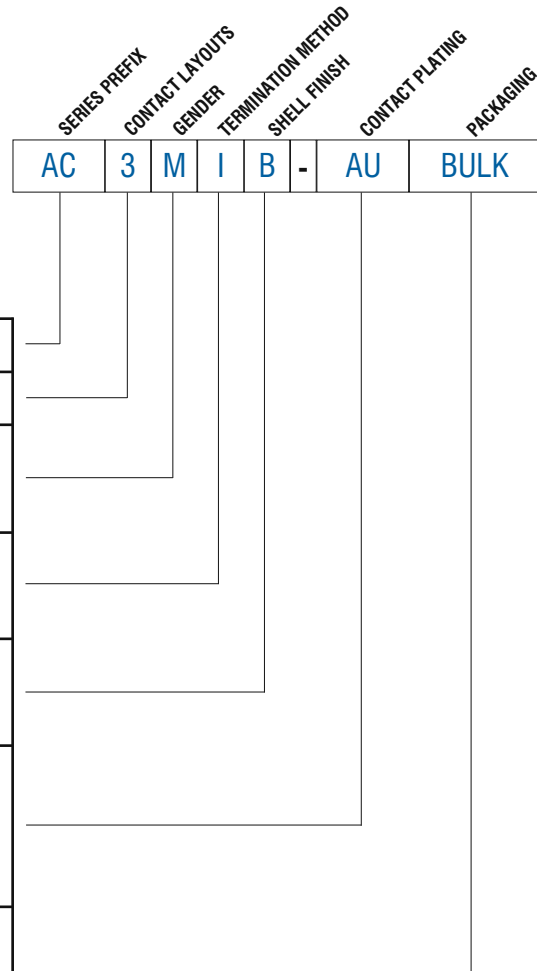
## PART NUMBER BREAKDOWN

### METAL SHELL TYPE - IDC



E. G . **AC3MIB-AU BULK**  
**AC** (Series Prefix), **3** contacts, **M**ale, IDC Contacts, **B**lack Polyester Finish,  
 - **AU** (Gold Plated Contacts), **BULK** Packaged.

|                           |       |   |  |
|---------------------------|-------|---|--|
| <b>SERIES PREFIX</b>      | AC    | = | Series Prefix  |
| <b>CONTACT LAYOUT</b>     | 3     | = | 3 Contact only   |
| <b>GENDER</b>             | F     | = | Female Socket Contacts                                     |
|                           | M     | = | Male Pin Contacts  |
| <b>TERMINATION METHOD</b> | I     | = | IDC Contacts   |
| <b>SHELL FINISH</b>       | Blank | = | Nickel Plated Finish                                       |
|                           | B     | = | Black Polyester Finish                                     |
| <b>CONTACT PLATING</b>    | Blank | = | Standard Plating (Silver or Tin - Refer to Standard Data.) |
|                           | AU    | = | Gold Plated  |
| <b>PACKAGING</b>          | Blank | = | Individual Bags  |
|                           | BULK  | = | Bulk Packed  |



**Note:** All AC Series Connectors are available with optional colour coded boot / backshell. Refer to page 80 and simply add colour to end of part number. Example: AC3MI - RED



**THERMOPLASTIC SHELL TYPE - IDC (SOLDERLESS)**



The Insulation Displacement Contact (IDC) connector is ideal for Original Equipment Manufacturers and end users alike and offers an alternative to our standard solder connector. Connectors can be quickly and easily assembled without screws or a soldering iron – by hand or portable termination tool. Labour savings of up to 60% in termination time can be achieved.

**Recommended Cable Dimensions: page 21**

**Features:**

- Thermoplastic Shell
- Insulation Displacement Contacts (IDC - Solderless).
- “Jaws” Cable Retention System.
- 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, Bulk Pack, Coloured Boots / Backshells  
**Specifications: page 20**

| PRODUCT - FIGURE | DRAWING | DESCRIPTION  | VARIATIONS           | PART NUMBER  |
|------------------|---------|--|----------------------|--------------|
|                  |         | XLR 3 pole male, IDC contacts, Thermoplastic shell, IDC Jaws cable clamp   | Standard             | AC3MCPI      |
|                  |         |  | Gold Plated Contacts | AC3MCPI-AU   |
|                  |         |  | Bulk Pack            | AC3MCPI BULK |
|                  |         | XLR 3 pole female, IDC contacts, Thermoplastic shell, IDC Jaws cable clamp | Standard             | AC3FCPI      |
|                  |         |  | Gold Plated Contacts | AC3FCPI-AU   |
|                  |         |  | Bulk Pack            | AC3FCPI BULK |

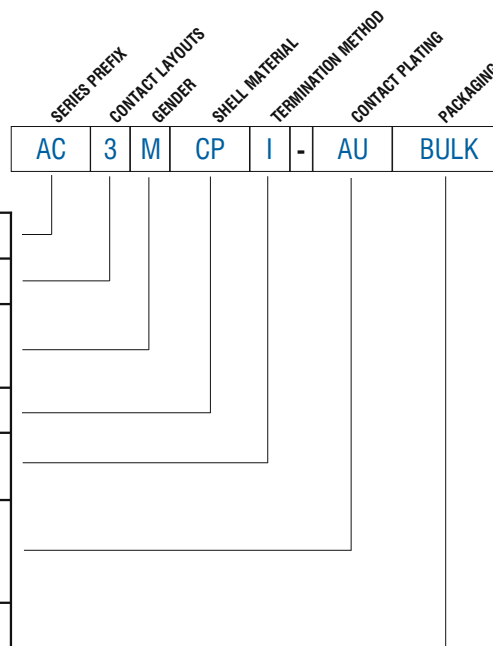
**Note:** Amphenol can not guarantee the termination performance unless the recommended cable dimensions listed on page 21 are followed.

## PART NUMBER BREAKDOWN

### IDC THERMOPLASTIC SHELL TYPE

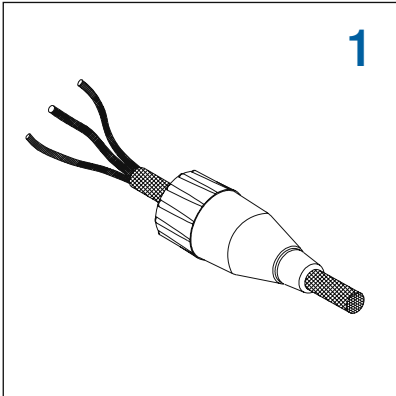
E. G. **AC3MCPI-AU BULK**  
 AC (Series Prefix), 3 contacts, Male, CP (Thermoplastic Shell), IDC Contacts, - AU (Gold Plated Contacts), Bulk Packaged.

|                           |       |   |   |
|---------------------------|-------|---|---|
| <b>SERIES PREFIX</b>      | AC    | = | Series Prefix   |
| <b>CONTACT LAYOUT</b>     | 3     | = | 3 Contacts only   |
| <b>GENDER</b>             | F     | = | Female Socket Contacts                                      |
|                           | M     | = | Male Pin Contacts   |
| <b>SHELL MATERIAL</b>     | CP    | = | Thermoplastic Shell   |
| <b>TERMINATION METHOD</b> | I     | = | IDC Contacts  |
| <b>CONTACT PLATING</b>    | Blank | = | Standard Plating ( Silver or Tin - Refer to Standard Data.) |
|                           | AU    | = | Gold Plated   |
| <b>PACKAGING</b>          | Blank | = | Individual Bags   |
|                           | BULK  | = | Bulk Packed   |



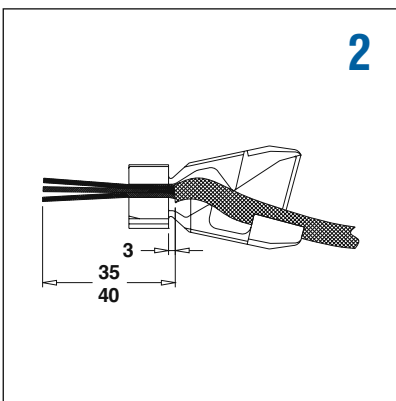
**Note:** All AC Series Connectors are available with optional colour coded boot / backshell. Refer to page 80 and simply add colour to end of part number. Example: AC3MCPI - RED

## AC IDC SERIES CABLE ASSEMBLY INSTRUCTIONS



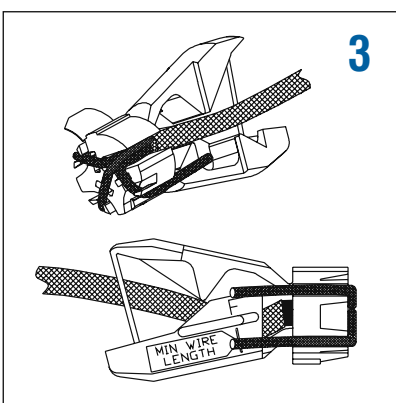
1

Push the cable through the boot assembly and strip the cable back 35 to 40 mm. Twist the shield wire.



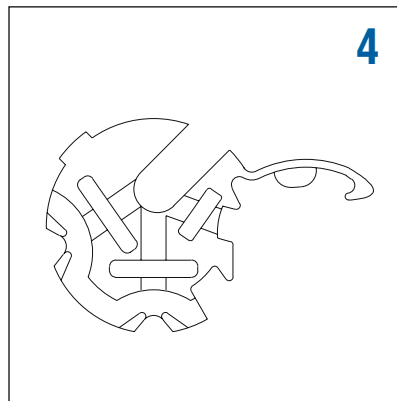
2

Fit the cable into the 'Jaws' cable clamp ensuring that the cable is pushed up to the neck of the clamp within 3mm.



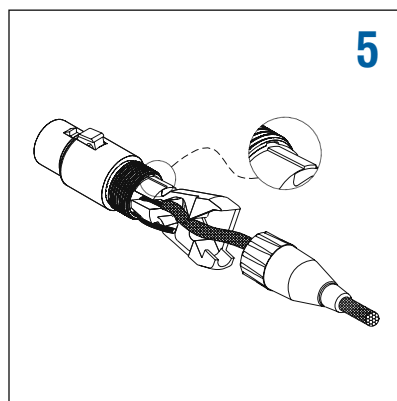
3

Pull back the conductors into their individual wire guidetracks. Note: Two spring fingers in the clamp will hold the conductors in position during subsequent operations. The ends of the two insulated wires must be on or past the minimum wire length mark.



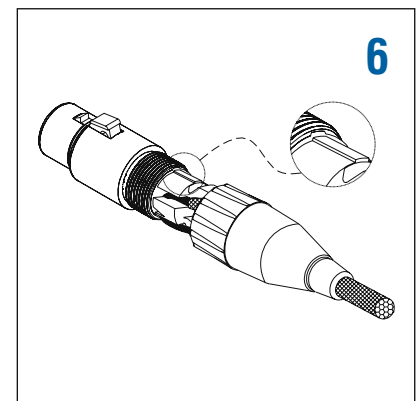
4

For ground protection the twisted shield wire is clipped in place with the ground protect flap.



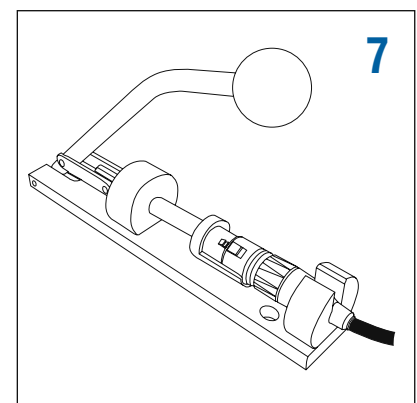
5

Trim back the shield wire, so there are no wires coming out of the flap and fit the 'Jaws' cable clamp into the shell assembly, ensuring the keyways are aligned.



6

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

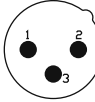
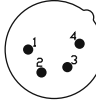
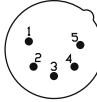
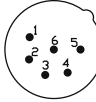
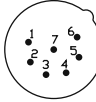


7

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

# Amphenol

## STANDARD DATA AC CABLE CONNECTORS

|                                   |   | VALUE   |   |   |   |   |
|-----------------------------------|---|---|---|---|---|---|
| <b>GENERAL CHARACTERISTICS</b>    | Number of contacts  | 3   | 4   | 5   | 6A  | 7   |
|                                   | AC Series Contact Arrangements<br>(Front view of pin inserts) |  |  |  |  |  |
|                                   | Termination   | IDC / SOLDER  | SOLDER  | SOLDER  | SOLDER  | SOLDER  |
|                                   | Max. Wire Gauge - Stranded wire:                              |   |   |   |   |   |
|                                   | IDC   | 24AWG   | N/A   | N/A   | N/A   | N/A   |
|                                   | Solder  | 14AWG   | 16AWG   | 18AWG   | 18AWG   | 20AWG   |
|                                   | Flammability rating of insulator plastics and housings        | UL94V-0   |   |   |   |   |
| Environmental                     | Complies with EU RoHS 2 Directive 2011/65/EU                  |   |   |   |   |   |
| <b>ELECTRICAL CHARACTERISTICS</b> | Service Voltage RMS   | 133V <sup>1)</sup>  |   |   |   |   |
|                                   | Test Voltage AC RMS   | 1400V   |   |   |   |   |
|                                   | Current carrying capacity:                                    |   |   |   |   |   |
|                                   | IDC   | 1A  | N/A   | N/A   | N/A   | N/A   |
|                                   | Solder  | 15A   | 10A   | 7.5A  | 7.5A  | 5A  |
|                                   | Typical Contact Resistance                                    | ≤3mΩ  |   |   |   |   |
| Insulation Resistance             | ≥1GΩ  |   |   |   |   |   |
| <b>CLIMATIC CHARACTERISTICS</b>   | Protection Class  | IP40  |   |   |   |   |
|                                   | Operating Temperature   | -25°C to +75°C (-13°F to +167°F)  |   |   |   |   |
| <b>MECHANICAL CHARACTERISTICS</b> | Insertion and Withdrawal force                                | ≥10N - ≤30N   |   |   |   |   |
|                                   | Weight - Metal <sup>2)</sup>                                  | 36g<br>(0.080lb)  | 37g<br>(0.081lb)  | 38g<br>(0.083lb)  | 38g<br>(0.083lb)  | 38g<br>(0.083lb)  |
|                                   | Weight - Thermoplastic <sup>2)</sup>                          | 18g<br>(0.039lb)  | 19g<br>(0.041lb)  | 20g<br>(0.044lb)  | 20g<br>(0.044lb)  | 20g<br>(0.044lb)  |
|                                   | Typical Cable retention force                                 | 22Kg to 44Kg (50lb to 100lb) - Dependent on cable material and diameter.          |   |   |   |   |
|                                   | Cable O.D. range - JAWS clamp                                 |   |   |   |   |   |
|                                   | IDC   | Max. Cable O.D. 5.85mm (0.23")  |   |   |   |   |
|                                   | Standard solder   | 3mm to 6.5mm (0.118" to 0.255")   |   |   |   |   |
|                                   | Large Solder  | 6.5mm to 8mm (0.255" to 0.314")   |   |   |   |   |
| Mechanical Operations             | 1000 mating cycles  |   |   |   |   |   |

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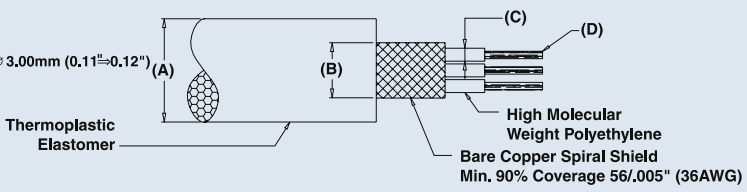
<sup>1)</sup> Not suitable for domestic applications above 50V

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

# Amphenol

## STANDARD DATA AC CABLE CONNECTORS



|   |  | DETAILS                                      |
|---|--|--|
| <b>MATERIALS</b>                        | 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 80 |
|   | Cable clamp  |  |
|   | IDC Socket JAWS  | UL94V-0 Modified PPO Resin (Pink)            |
|   | IDC Pin JAWS   | UL94V-0 Modified PPO Resin (Blue)            |
|   | Standard Solder JAWS   | UL94V-0 Modified PPO Resin (Black)           |
|   | Large Solder JAWS  | UL94V-0 Modified PPO Resin (Purple)          |
|   | Cable Bushing  | Santoprene                                   |
|   | Male Contact   | Thermoplastic Polyurethane                   |
|   | Stamped - IDC / Plating  | Phosphor Bronze / Silver or Gold (Optional)  |
|   | Stamped - Solder / Plating   | Phosphor Bronze / Silver or Gold (Optional)  |
| Machined - Solder / Plating             | Brass / Silver or Gold (Optional)  |  |
| Female Contact                          |  |  |
| Stamped - IDC / Plating                 | Phosphor Bronze / Tin or Gold (Optional)   |  |
| Stamped - Solder / Plating              | Phosphor Bronze / Tin or Gold (Optional)   |  |
| Machined - Solder / Plating             | Brass / Silver or Gold (Optional)  |  |
| <b>IDC RECOMMENDED CABLE DIMENSIONS</b> |  <p>                     A - Cable O.D.: Max. <math>\varnothing</math> 5.85mm (0.23").<br/>                     B - Bare Copper Spiral Shield OD <math>\varnothing</math> 2.75 <math>\Rightarrow</math> <math>\varnothing</math> 3.00mm (0.11" <math>\Rightarrow</math> 0.12")<br/>                     C - OD <math>\varnothing</math> 1.30 <math>\Rightarrow</math> <math>\varnothing</math> 1.50mm (0.05" <math>\Rightarrow</math> 0.06")<br/>                     D - 16/005" (24 AWG stranded wire)                 </p> <p>                     Thermoplastic Elastomer<br/>                     High Molecular Weight Polyethylene<br/>                     Bare Copper Spiral Shield<br/>                     Min. 90% Coverage 56/005" (36AWG)                 </p> |  |

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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;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- 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».



## 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).



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