

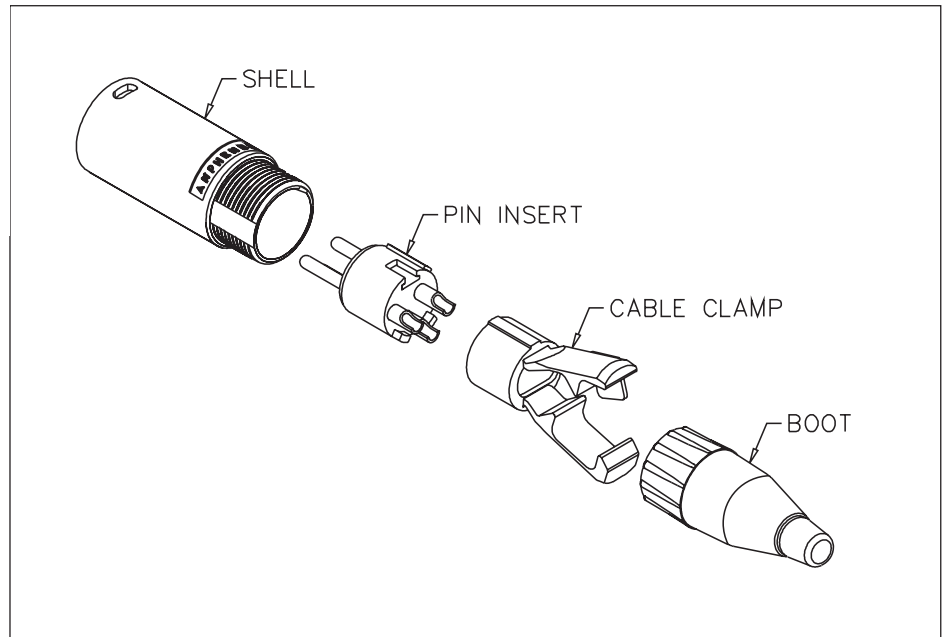


**EN:** This Datasheet/Document is presented by the manufacturer.

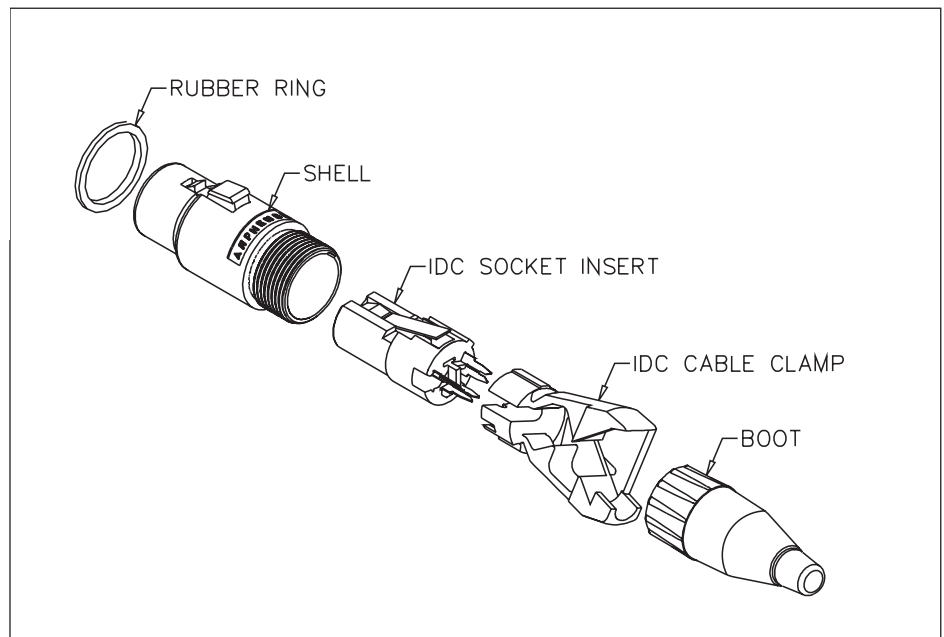
Please visit our website for pricing and availability at [www.hestore.hu](http://www.hestore.hu).

# Amphenol

ISO VIEW OF AC3MM



ISO VIEW OF AC3FI



**AMPHENOL AUSTRALIA WEBSITE**

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

**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")

### 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.

### Applicable Patents

US Patent No. 5,439,388

### 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



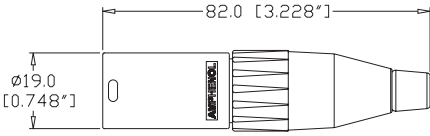
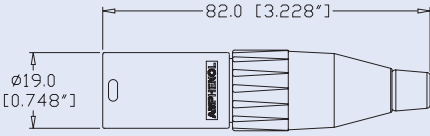
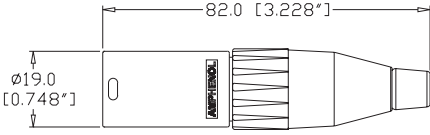
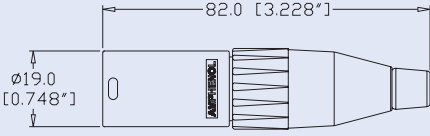
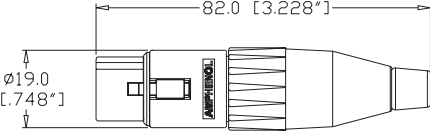
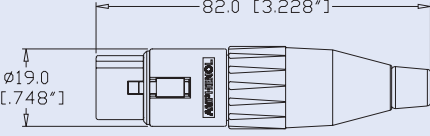
## Features:

- 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 7

**Specifications:** Page 13-14

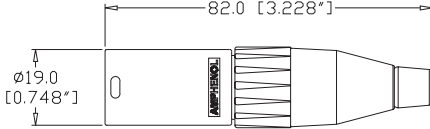
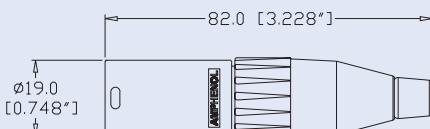
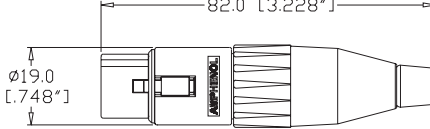
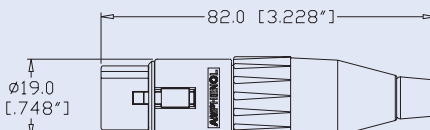
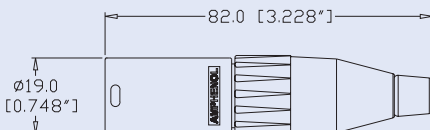
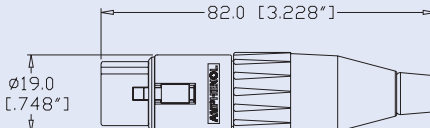
| PRODUCT - FIGURE                                                                    | DRAWING<br>Dimensions in mm (inches)                                                | DESCRIPTION                                                          | VARIATIONS           | PART NUMBER |
|---------------------------------------------------------------------------------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

| 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>Stamped 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>Stamped 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  |

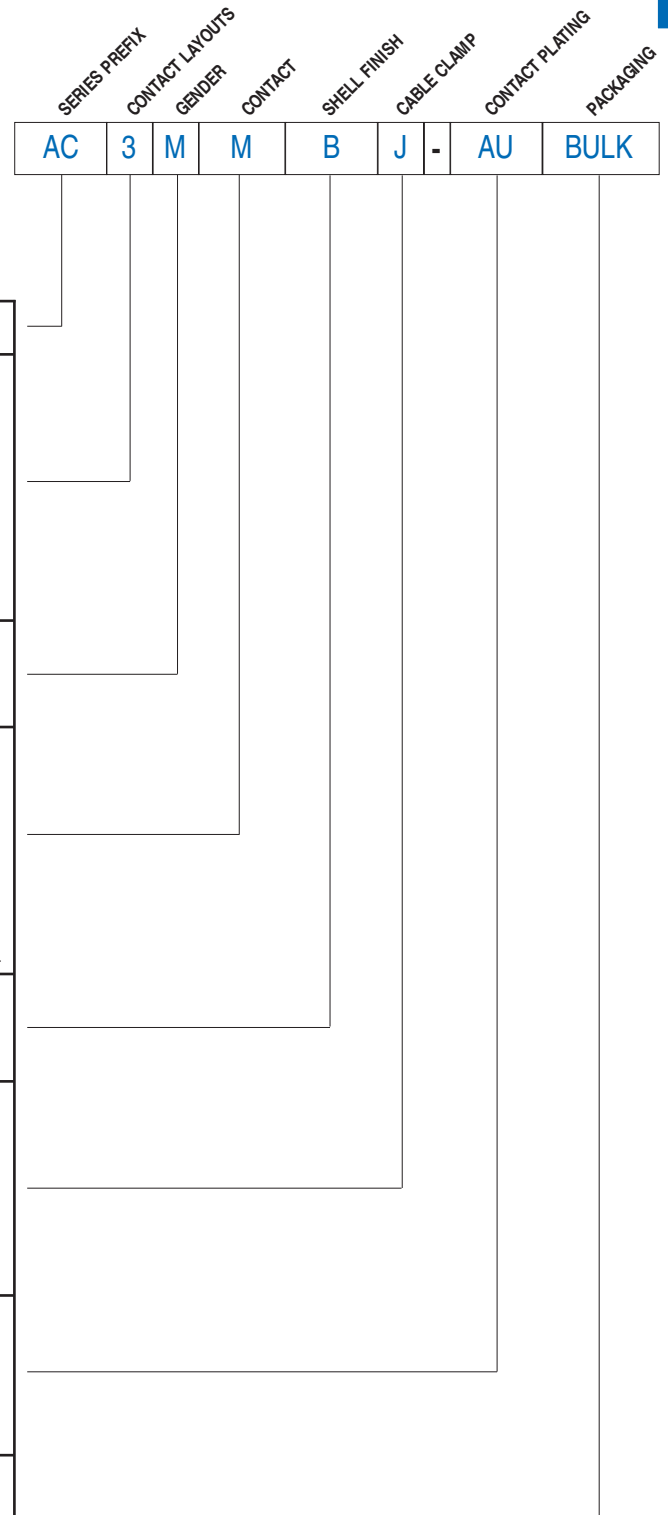
## PART NUMBER BREAKDOWN

### METAL SHELL TYPE - SOLDER



E. G. **AC3MMBJ-AU BULK**  
**AC** (Series Prefix), **3** contacts, **M**ale, **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</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 and MG only) |
|                        | NOTE: 4 - 7 contact connectors have machined contacts and grounding as standard. They are not available in stamped contacts. |   |                                                                                         |
| <b>SHELL FINISH</b>    | Blank                                                                                                                        | = | Nickel Plated Finish                                                                    |
|                        | B                                                                                                                            | = | Black Polyester Finish                                                                  |
| <b>CABLE CLAMP</b>     | Blank                                                                                                                        | = | Standard Jaws 3 mm - 6.5 mm cable O.D. (0.118" to 0.255")                               |
|                        | J                                                                                                                            | = | Large Jaws 6.5mm - 8mm cable O.D. (0.255" to 0.314")                                    |
|                        | Blank                                                                                                                        | = | Standard Plating ( Silver or Tin - Refer to Standard Data.)                             |
|                        | NOTE:<br>7 Contact is gold plated as standard.                                                                               |   |                                                                                         |
|                        | 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 60 and simply add colour to end of part number. Example: AC3MM - RED

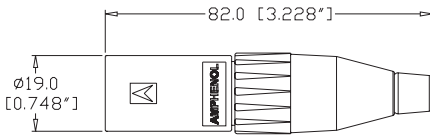
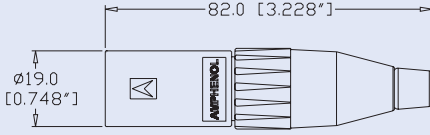
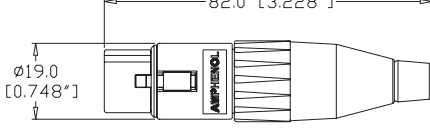


#### Features:

- 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.)

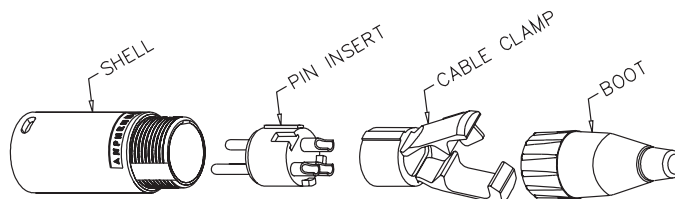
**Options:** Gold Plated Contacts, Stamped Contacts (3 Contact only), Bulk Pack, Coloured Boots / Backshells  
3, 4, 5, 6A and 7 Contacts.

**Specifications:** Page 13-14

| PRODUCT - FIGURE                                                                    | DRAWING<br>Dimensions in mm (inches)                                                | DESCRIPTION                                                                         | VARIATIONS           | PART NUMBER  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------|--------------|
|    |    | XLR 3 pole male,<br>Machined contacts,<br>Thermoplastic shell,<br>Jaws cable clamp  | Standard             | AC3MMCP      |
|                                                                                     |                                                                                     |                                                                                     | Gold Plated Contacts | AC3MMCP-AU   |
|                                                                                     |                                                                                     |                                                                                     | Large Cable Clamp    | AC3MMCPJ     |
|                                                                                     |                                                                                     |                                                                                     | Bulk Pack            | AC3MMCP BULK |
|  |  | XLR 3 pole male,<br>Stamped contacts,<br>Thermoplastic shell,<br>Jaws cable clamp   | Standard             | AC3MCP       |
|                                                                                     |                                                                                     |                                                                                     | Gold Plated Contacts | AC3MCP-AU    |
|                                                                                     |                                                                                     |                                                                                     | Large Cable Clamp    | AC3MCPJ      |
|                                                                                     |                                                                                     |                                                                                     | Bulk Pack            | AC3MCP BULK  |
|  |  | XLR 3 pole female,<br>Stamped contacts,<br>Thermoplastic shell,<br>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





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.

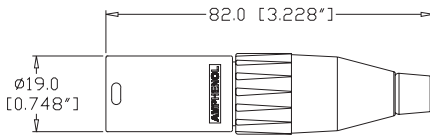
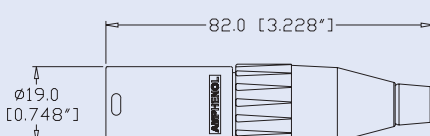
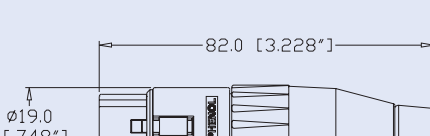
**Recommended Cable Dimensions: Page 14**

**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.

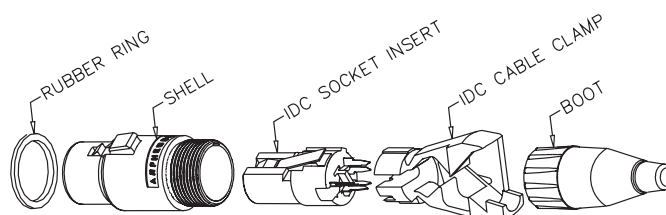
**Options:** Gold plated contacts, Black Finish Shell, Bulk Pack, Coloured Boots / Backshells.

**Part Number Breakdown: Page 10 Specifications: Page 13-14 Assembly Instructions: Page 12**

| PRODUCT - FIGURE                                                                    | DRAWING                                                                             | Dimensions in mm (inches)       | DESCRIPTION                                                          | VARIATIONS           | PART NUMBER |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------|----------------------------------------------------------------------|----------------------|-------------|
|   |    | 82.0 [3.228"]<br>ø19.0 [0.748"] | XLR 3 pole male, IDC contacts, Nickel Finish, IDC Jaws cable clamp   | Standard             | AC3MI       |
|                                                                                     |                                                                                     |                                 |                                                                      | Gold Plated Contacts | AC3MI-AU    |
|                                                                                     |                                                                                     |                                 |                                                                      | Bulk Pack            | AC3MI BULK  |
|  |  | 82.0 [3.228"]<br>ø19.0 [0.748"] | XLR 3 pole male, IDC contacts, Black Finish, IDC Jaws cable clamp    | Standard             | AC3MIB      |
|                                                                                     |                                                                                     |                                 |                                                                      | Gold Plated Contacts | AC3MIB-AU   |
|                                                                                     |                                                                                     |                                 |                                                                      | Bulk Pack            | AC3MIB BULK |
|  |  | 82.0 [3.228"]<br>ø19.0 [0.748"] | XLR 3 pole female, IDC contacts, Nickel Finish, IDC Jaws cable clamp | Standard             | AC3FI       |
|                                                                                     |                                                                                     |                                 |                                                                      | Gold Plated Contacts | AC3FI-AU    |
|                                                                                     |                                                                                     |                                 |                                                                      | Bulk Pack            | AC3FI BULK  |
|  |  | 82.0 [3.228"]<br>ø19.0 [0.748"] | 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 14 are followed.

## ISO VIEW OF AC3FI



# Amphenol

## PART NUMBER BREAKDOWN

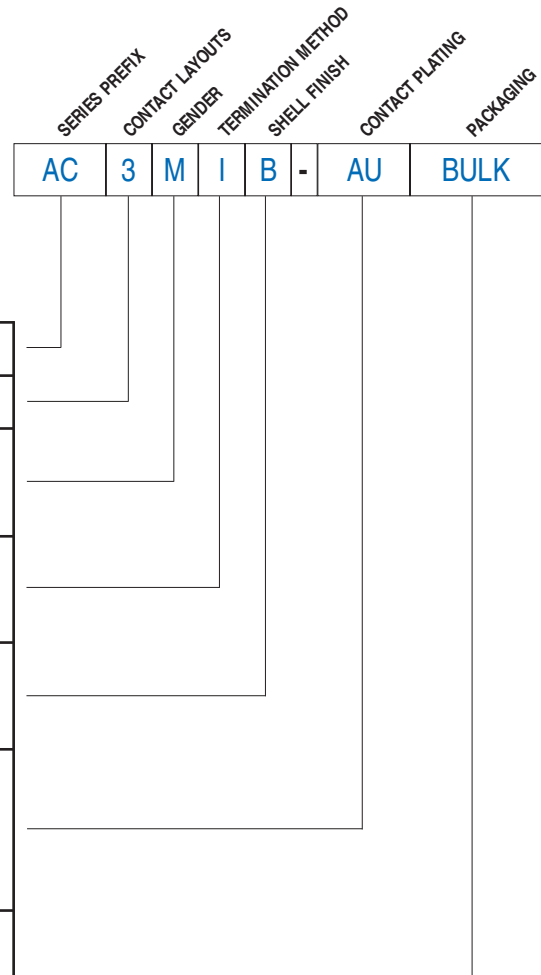
### METAL SHELL TYPE - IDC



E. G. **AC3MIB-AU BULK**

**AC** (Series Prefix), **3** contacts, **M**ale, **IDC** Contacts, **Black** 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 60 and simply add colour to end of part number. Example: AC3MI - RED



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 14**

**Features:**

- Thermoplastic Shell
- Available 3 Contact only.
- 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

**Part Number Breakdown: Page 11 Specifications: Page 13-14**

**Assembly Instructions: Page 12**

| PRODUCT - FIGURE                                                                    | DRAWING<br>Dimensions in mm (inches) | 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 |

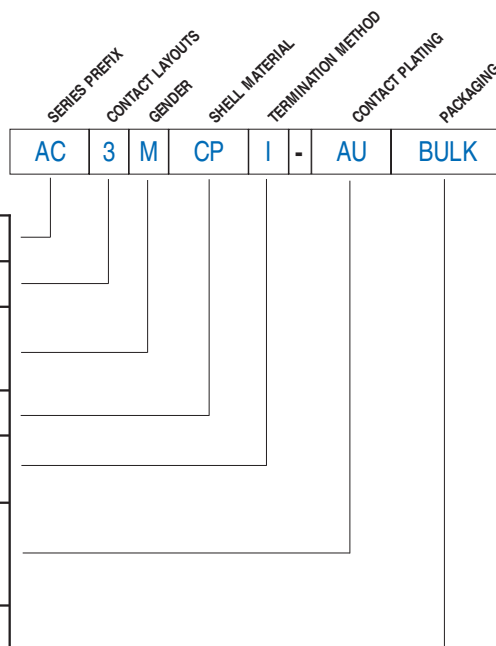
**Note:** Amphenol can not guarantee the termination performance unless the recommended cable dimensions listed on page 14 are followed.

## PART NUMBER BREAKDOWN

### IDC THERMOPLASTIC SHELL TYPE

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

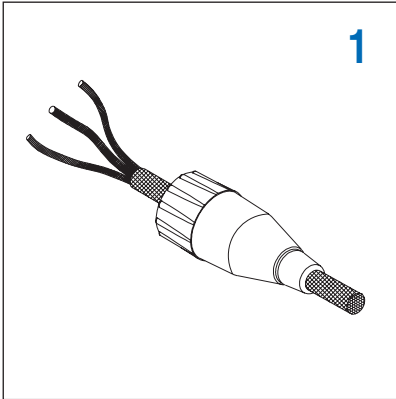
|                           |       |   |                                                             |
|---------------------------|-------|---|-------------------------------------------------------------|
| <b>SERIES PREFIX</b>      | AC    | = | Series Prefix                                               |
| <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 60 and simply add colour to end of part number.  
 Example: AC3MCPI - RED

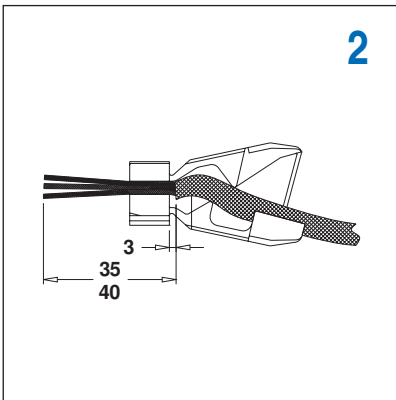
# Amphenol

## AC IDC SERIES CABLE ASSEMBLY INSTRUCTIONS



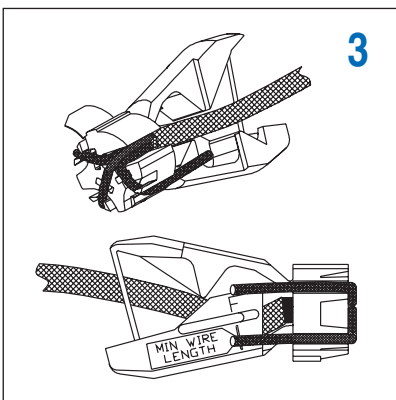
1

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



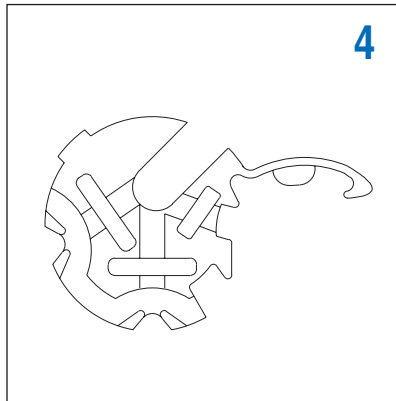
2

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



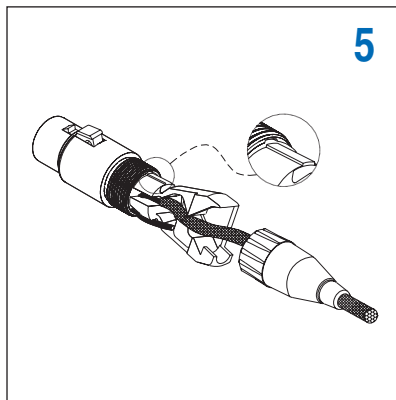
3

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.



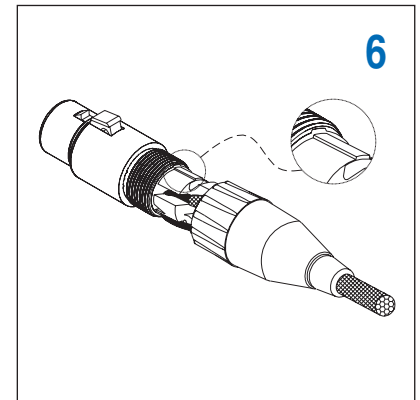
4

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



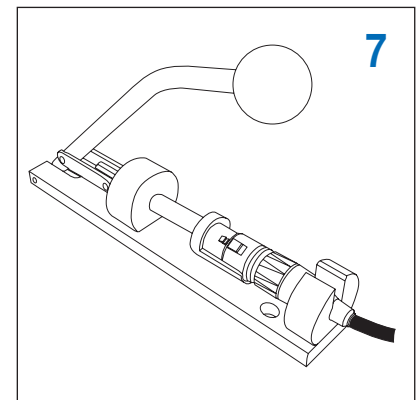
5

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.

## 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                                                   | 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 RoHS Directive 2002/95/EC                                           |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| ELECTRICAL CHARACTERISTICS | 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                                                                             |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| CLIMATIC CHARACTERISTICS   | Insulation Resistance                                         | ≥ 1GΩ                                                                             |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                            | Protection Class                                              | IP40                                                                              |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
| MECHANICAL CHARACTERISTICS | Operating Temperature                                         | -25° C to + 75° C (-13°F to +167°F)                                               |                                                                                   |                                                                                     |                                                                                     |                                                                                     |
|                            | 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                                                                |                                                                                   |                                                                                     |                                                                                     |                                                                                     |

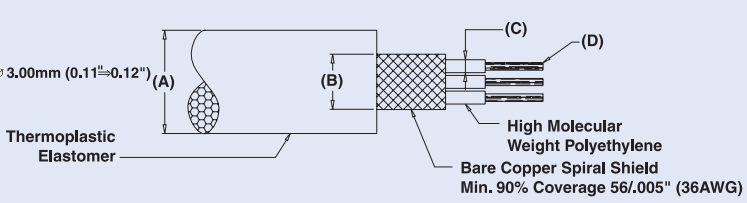
<sup>1)</sup> Not suitable for domestic applications above 50V

<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                                                    |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| MATERIALS                        | Connector shell - Metal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Diecast Zinc Alloy                                         |
|                                  | Shell finish                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Satin nickel or Black polyester                            |
|                                  | Connector shell - Thermoplastic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Thermoplastic, UL94V-0 Modified PPE Resin                  |
|                                  | Shell finish                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Black                                                      |
|                                  | Insulators                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | UL94V-0 PBT Resin or Modified PPE Resin                    |
|                                  | Boot / Backshell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | UL94V-0 Modified PPE Resin or Machined Brass               |
|                                  | Finish                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Black, other colours available - see page 60               |
|                                  | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Thermoplastic Polyurethane                                 |
|                                  | Male Contact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                            |
|                                  | 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) - 4 socket is tin plated |
| IDC RECOMMENDED CABLE DIMENSIONS | <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</p> <p>High Molecular Weight Polyethylene</p> <p>Bare Copper Spiral Shield Min. 90% Coverage 56/.005" (36AWG)</p> |                                                            |

Rev 2 - 09/2005