



# AX SERIES XLR CABLE CONNECTORS

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

#### **Features**

- Unique Australian designed shell and housing.
- One piece ground / latch spring design incorporating twin wipe contacts for a direct connection path from mating shell to ground providing enhanced connection and EMI performance.
- Ergonomic sleeve design for improved grip.
- Channel I.D capability with coloured sleeves.
- Oversized ergonomic latch for quick and easy mating.
- Leading first mate last break pin 1 on socket connectors.
- Chuck style cable clamp to suit 3mm 8mm (0.118" - 0.314") cable 0.D. with integrated split to allow inclusion after soldering.
- Concealed latching point for improved aesthetics, sealing and strength.
- Overmolded boot with flex bend relief for improved aesthetics, cable protection and boot retention.
- Concentric socket contact design provides optimal contact resistance
- Precision machined pin contacts as standard.
- Compact solder buckets to reduce termination time and material wastage during the soldering process.
- Zinc diecast shell housing for robustness and wear with Satin nickel or Black finish.
- Available in 3,4 and 5 contact arrangements.

### **Options**

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

### **Ordering Codes**

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

## Simple steps to guide you in using this catalogue

- 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.
- 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.

#### **METAL SHELL TYPE - SOLDER**



#### **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 0.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 Dimensions in	mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		-71 - 74 [2.80-2.90°]————	XLR 3 pole male Machined contacts	Standard	AX3M
1	819 [0.7447]		Nickel Finish	Gold Plated Contacts	AX3M-AU
	Authorion of the control of the cont			Bulk Pack	AX3M BULK
			XLR 3 pole male	Standard	AX3MB
	71 - 74 [2.80-2.90"]—	-	Machined contacts		
S C	919 [0.7447]		Black Finish	Gold Plated Contacts	AX3MB-AU
3	Amphanol			Bulk Pack	AX3MB BULK
		- 74 [2.80-2.90"]	XLR 3 pole female	Standard	AX3F
	71 - 74 [2.80-2.90"]	Stamped contacts Nickel Finish	Gold Plated Contacts	AX3F-AU	
			Bulk Pack	AX3F BULK	
		<u> </u>	XLR 3 pole female	Standard	AX3FB
S/ 03	71 - 74 [2,80-2,90"]	Stamped contacts Black Finish	Gold Plated Contacts	AX3FB-AU	
			Bulk Pack	AX3FB BULK	
			XLR 4 pole male Machined contacts	Standard	AX4M
	Amphenol	Nickel Finish	Gold Plated Contacts	AX4M-AU	
			Bulk Pack	AX4M BULK	

<sup>\*</sup>PI538 is available for download at www.amphenolaudio.com

### **METAL SHELL TYPE - SOLDER**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	<b>ਹ</b> ੋਂ	——71 - 74 <b>[2.80-2.90"</b> ]—— <b>⊸</b>	XLR 4 pole male Machined contacts	Standard	AX4MB
	(819 [0.744"]		Black Finish	Gold Plated Contacts	AX4MB-AU
	Manual Ma				
				Bulk Pack	AX4MB BULK
		- 74 [2.80-2.90"]————	XLR 4 pole female Machined contacts	Standard	AX4F
To the	71		Nickel Finish	Gold Plated Contacts	AX4F-AU
				Bulk Pack	AX4F BULK
	L819 - 71	- 74 [2.80-2.90"]————	XLR 4 pole female Machined contacts	Standard	AX4FB
	71		Black Finish	Gold Plated Contacts	AX4FB-AU
				Bulk Pack	AX4FB BULK
-	F	71 - 74 [2.80-2.90"]————	XLR 5 pole male Machined contacts	Standard	AX5M
	Marchanol (0.744°)	Nickel Finish	Gold Plated Contacts	AX5M-AU	
			Bulk Pack	AX5M BULK	
	71 - 74 [2.80-2.90"]	XLR 5 pole male Machined contacts	Standard	AX5MB	
The same of the sa		Black Finish	Gold Plated Contacts	AX5MB-AU	
	Amphanol			Bulk Pack	AX5MB BULK
		- 74 [2.80-2.90°]————————————————————————————————————	XLR 5 pole female Machined contacts	Standard	AX5F
1	71 - 74 [2.80-2.90"]	Nickel Finish	Gold Plated Contacts	AX5F-AU	
			Bulk Pack	AX5F BULK	
	L. 873 r →	- 74 [2.80-2.90"]————	XLR 5 pole female Machined contacts	Standard	AX5FB
	71 - 74 [2.80-2.90"]	Black Finish	Gold Plated Contacts	AX5FB-AU	
				Bulk Pack	AX5FB BULK



## PART NUMBER BREAKDOWN

METAL SHELL TYPE - SOLDER

CONTACT LATOUTS CONTACT PLATING SLEHE OFTON SHELLINISH GENDER В 2 AX3 AU **BULK** M E. G. AX3MB2-AU BULK AX (Series Prefix), 3 contacts, Male, Black Finish, 2 (Red Sleeve)- AU (Gold Plated Contacts), Bulk Packaged. **SERIES PREFIX** AX Series Prefix **CONTACT LAYOUTS** 3 3 Contacts 4 4 Contacts 5 5 Contacts **GENDER Female Socket Contacts** Male Pin Contacts SHELL FINISH Blank Nickel Plated Finish В **Black Finish SLEEVE OPTION** 1 Brown 2 Red 3 Orange 4 Yellow 5 Green 6 Blue 7 Violet 8 Grey 9 White C Clear **CONTACT PLATING** Standard Plating (Silver or Tin -Blank Refer to Standard Data.) ΑU **Gold Plated PACKAGING** Individual Bags Blank **BULK Bulk Packed** 



## STANDARD DATA AX SERIES CABLE CONNECTORS

		VALUE				
GENERAL Characteristics	Number of contacts	3	4	5		
CHANACIENISTICS	AX Series Contact Arrangements (Front view of pin inserts)	1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	( 1 4 6 2 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6	2 3 4		
	Termination		SOLDER			
	Max. Wire Gauge - Stranded wire: Solder	14AWG	16AWG	18AWG		
	Flammability rating of insulator plastics and housings		UL94V-0			
	Environmental	Complie	es with EU RoHS 2 Directive 201	1/65/EU		
ELECTRICAL CHARACTERISTICS	Service Voltage RMS		133V 1)			
CHANACIENISTICS	Test Voltage AC RMS		1400V			
	Current carrying capacity: Solder	15A	10A	7.5A		
	Typicial Contact Resistance	≤3m Ω				
	Insulation Resistance	≥1G Ω				
CLIMATIC CHARACTERISTICS	Protection Class	IP40				
CHANACILIISTICS	Operating Temperature	-25°C to +75°C (-13°F to -167°F)				
MECHANICAL CHARACTERISTICS	Insertion and Withdrawal force	≥10N - ≤30N				
CHARACTERISTICS	Weight 2)	31g (0.068lb)	33g (0.073lb)	33g (0.073lb)		
	Typical Cable retention force	22Kg to 44Kg (50lb t	to 100lb) - Dependent on cable i	material and diameter.		
	Cable O.D. range	3mm to 8mm (0.118" to 0.314")				
	Mechanical Operations		1000 mating cycles			
MATERIALS	Connector shell - Metal Shell finish	Diecast Zinc Alloy Satin nickel or Black				
	Insulators		UL94V-0 PA66, 30% Glass Fille	d		
	Boot / Backshell Finish	UL94V-0 Noryl N190 / Santoprene Black, other colours available - see page 80				
	Cable clamp	Noryl N190				
	Sleeve		Noryl N190			
	Male Contact Machined - Solder / Plating		Brass / Silver or Gold (Optional)	)		
	Female Contact Stamped - Solder / Plating	Phosphor Bronze / Tin or Gold (Optional)				

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

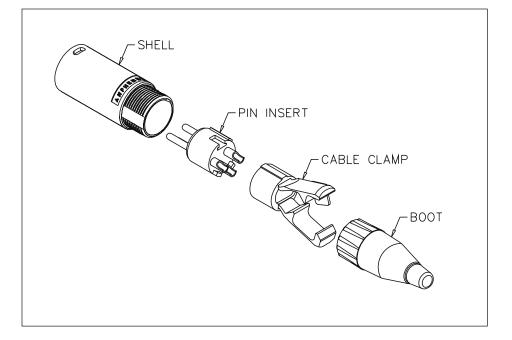
<sup>&</sup>lt;sup>2)</sup> Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.

### AC SERIES XLR CABLE CONNECTORS

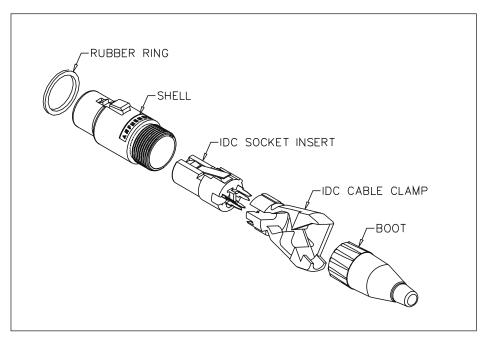
## **Amphenol**

**ISO VIEW OF AC3MM** 





### **ISO VIEW OF AC3FI**



### AMPHENOL AUSTRALIA WEBSITE

www.amphenolaudio.com

## **AMPHENOL WORLD HEADQUARTERS WEBSITE**

www.amphenol.com



## **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 guickly 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 0.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 0.D 3mm to 6.5mm (0.118" to 0.255")



Large Jaws cable clamp (Purple), Cable 0.D 6.5mm to 8mm (0.255" to 0.314")

### **Ordering Codes**

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- 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:

- · 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	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
_	¥	—82.0 [3.228″] <del></del>	XLR 3 pole male, Machined contacts,	Standard	AC3MM
	<u> </u>		Nickel Finish, Jaws cable clamp	Gold Plated Contacts	AC3MM-AU
3	ø19.0 [0.748″]		Jaws Cable Clamp	Large Cable Clamp	AC3MMJ
•	<u> </u>			Bulk Pack	AC3MM BULK
	<u> </u>	—82.0 [3.228″] <del></del>	XLR 3 pole male, Machined contacts,	Standard	AC3MMB
	<u></u>		Black Finish, Jaws cable clamp	Gold Plated Contacts	AC3MMB-AU
	ø19.0 [0.748″]		Jaws capic clamp	Large Cable Clamp	AC3MMBJ
	1			Bulk Pack	AC3MMB BULK
	<u> </u>	—82.0 [3.228″] <del></del>	XLR 3 pole male, Stamped contacts,	Standard	AC3M
	Ø19.0 [0.748*]	Nickel Finish, Jaws cable clamp	Gold Plated Contacts	AC3M-AU	
6			Large Cable Clamp	AC3MJ	
	<u>,                                     </u>			Bulk Pack	AC3M BULK
	82.0 [3.228'] Ø19.0 [0.748']	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	
-	ļ <del>o</del>	—82.0 [3.228″] <del></del>	XLR 3 pole female, Stamped contacts,	Standard	AC3F
		Nickel Finish, Jaws cable clamp	Gold Plated Contacts	AC3F-AU	
	ø1 <sup>9</sup> .0 [.748″]	No.	Saws sable slamp	Large Cable Clamp	AC3FJ
	1			Bulk Pack	AC3F BULK
	₩	—82.0 [3.228″] <del> </del>	XLR 3 pole female, Stamped contacts,	Standard	AC3FB
	Ø19.0 [.748"]	Black Finish, Jaws cable clamp	Gold Plated Contacts	AC3FB-AU	
			Large Cable Clamp	AC3FBJ	
				Bulk Pack	AC3FB BULK



### **METAL SHELL TYPE - SOLDER**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
_	l-r		XLR 4 pole male, Machined contacts,	Standard	AC4M
	Δ	-82.0 [3.228″] →	Nickel Finish, Jaws cable clamp	Gold Plated Contacts	AC4M-AU
	ø1 <sup>9</sup> .0 [0.748″]		Jaws capie clarrip	Large Cable Clamp	AC4MJ
	<u> </u>			Bulk Pack	AC4M BULK
_	h-	-82.0 [3.228″] <del></del>	XLR 4 pole male, Machined contacts,	Standard	AC4MB
4	Δ		Black Finish, Jaws cable clamp	Gold Plated Contacts	AC4MB-AU
	ø19.0 [0.748″]		Jaws capic claimp	Large Cable Clamp	AC4MBJ
	<u>Y</u>			Bulk Pack	AC4MB BULK
	Α	-82.0 [3.228″] <del></del>	XLR 4 pole female, Machined contacts,	Standard	AC4F
			Nickel Finish, Jaws cable clamp	Gold Plated Contacts	AC4F-AU
	ø19.0 [.748″]	NA PARA PARA PARA PARA PARA PARA PARA PA	Jaws capie clarrip	Large Cable Clamp	AC4FJ
	<u> </u>			Bulk Pack	AC4F BULK
	82.0 [3.228"] ø19.0 [.748"]	-820 [3228″]	XLR 4 pole female, Machined contacts,	Standard	AC4FB
			Black Finish, Jaws cable clamp	Gold Plated Contacts	AC4FB-AU
		Jaws Cable Clamp	Large Cable Clamp	AC4FBJ	
0.5				Bulk Pack	AC4FB BULK
	82.0 [3.228*] Ø19.0 [0.748*]	XLR 5 pole male, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC5M	
			Gold Plated Contacts	AC5M-AU	
			Large Cable Clamp	AC5MJ	
				Bulk Pack	AC5M BULK
	ю	—82.0 [3.228″] <del>——□</del>	XLR 5 pole male, Machined contacts,	Standard	AC5MB
	Δ	02.0 [3.220]	Black Finish, Jaws cable clamp	Gold Plated Contacts	AC5MB-AU
	ø19.0 [0.748″]	THE PARTY OF THE P	Jaws capic claimp	Large Cable Clamp	AC5MBJ
•	<u>y                                      </u>			Bulk Pack	AC5MB BULK
_	ю	-82.0 [3.228″] <del></del>	XLR 5 pole female, Machined contacts,	Standard	AC5F
			Nickel Finish, Jaws cable clamp	Gold Plated Contacts	AC5F-AU
	Ø19.0 [.748″]	Town Hall	Jaws capie clarrip	Large Cable Clamp	AC5FJ
	ŷ S			Bulk Pack	AC5F BULK
	N-	—820 [3228″1——~	XLR 5 pole female,	Standard	AC5FB
	82.0 [3.228"] ø19.0 [.748"]	Machined contacts, Black Finish, Jaws cable clamp	Gold Plated Contacts	AC5FB-AU	
			Large Cable Clamp	AC5FBJ	
			Bulk Pack	AC5FB BULK	

### **METAL SHELL TYPE - SOLDER**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	₽	—82.0 [3.228″]——⊶	XLR 6A pole male, Machined contacts,	Standard	AC6AM
	Δ		Nickel Finish, Jaws cable clamp	Gold Plated Contacts	AC6AM-AU
	ø19.0 [0.748″]		daws casic clamp	Large Cable Clamp	AC6AMJ
	<u>¥</u>			Bulk Pack	AC6AM BULK
	₩		XLR 6A pole male, Machined contacts,	Standard	AC6AMB
	Δ		Black Finish, Jaws cable clamp	Gold Plated Contacts	AC6AMB-AU
	ø1 <sup>9</sup> .0 [0.748″]		Jaws capic clamp	Large Cable Clamp	AC6AMBJ
	<u>¥</u>			Bulk Pack	AC6AMB BULK
	ы		XLR 6A pole female, Machined contacts,	Standard	AC6AF
			Nickel Finish, Jaws cable clamp	Gold Plated Contacts	AC6AF-AU
	ø19.0 [.748″]		Jaws Cable Clarily	Large Cable Clamp	AC6AFJ
	<u> </u>			Bulk Pack	AC6AF BULK
_	ы		XLR 6A pole female, Machined contacts,	Standard	AC6AFB
	Ø19.0 [.748"]		Black Finish, Jaws cable clamp	Gold Plated Contacts	AC6AFB-AU
				Large Cable Clamp	AC6AFBJ
				Bulk Pack	AC6AFB BULK
	82.0 [3.228*] \$\vert{919.0}{\pi_{19.0}} \tag{0.748*}	XLR 7 pole male, Gold plated Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC7M	
			Large Cable Clamp	AC7MJ	
				Bulk Pack	AC7M BULK
	Pleak Finish	Gold plated Machined contacts,	Standard	AC7MB	
		TO A STATE OF THE		Large Cable Clamp	AC7MBJ
•	<u> </u>			Bulk Pack	AC7MB BULK
		82.0 [3.228"]	XLR 7 pole female, Gold plated Machined contacts,	Standard	AC7F
	Ø19.0 [.748*]		Nickel Finish, Jaws cable clamp	Large Cable Clamp	AC7FJ
				Bulk Pack	AC7F BULK
	82.0 [3.228*] ø19.0 [.748*]	XLR 7 pole female, Gold plated Machined contacts, Black Finish, Jaws cable clamp	Standard	AC7FB	
			Large Cable Clamp	AC7FBJ	
				Bulk Pack	AC7FB BULK



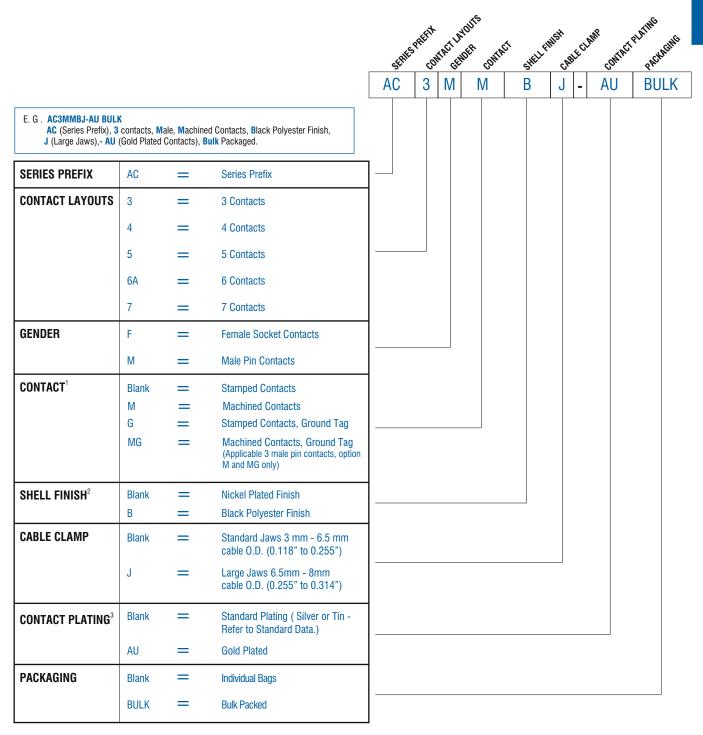


#### **METAL SHELL TYPE - SOLDER**

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### PART NUMBER BREAKDOWN

METAL SHELL TYPE - SOLDER



#### Note:

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

 $<sup>^{\</sup>rm 2}$  Ground contacts are not supplied with the black polyester finish shell option.

 $<sup>^{\</sup>rm 3}$  7 Contact is gold plated as standard.

<sup>&</sup>lt;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

## AC SERIES XLR CABLE CONNECTORS

### THERMOPLASTIC SHELL TYPE - SOLDER



#### Features:

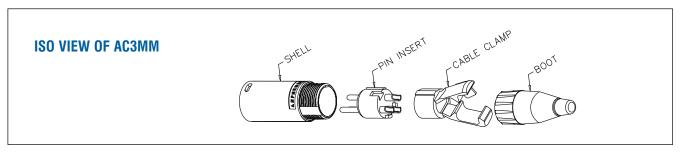
- · Thermoplastic Shell.
- Solder Bucket Connections.
- "Jaws" Cable Retention System.
- Stamped or Machined Contacts.
- Leading first mate last break socket contact.
- Quick and easy assembly without screws by hand or portable termination tool. (Part number T2860.)

**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	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	F	32.0 [3.228*]———	XLR 3 pole male, Machined contacts, Thermoplastic shell,	Standard	AC3MMCP
A	ø19.0 [0.748"]		Jaws cable clamp	Gold Plated Contacts	AC3MMCP-AU
			Large Cable Clamp	AC3MMCPJ	
				Bulk Pack	AC3MMCP BULK
₽	32.0 [3.228"]——~	XLR 3 pole male, Stamped contacts, Thermoplastic shell,	Standard	AC3MCP	
	Ø19.0 [0.748*]	Jaws cable clamp	Gold Plated Contacts	AC3MCP-AU	
3			Large Cable Clamp	AC3MCPJ	
				Bulk Pack	AC3MCP BULK
		XLR 3 pole female, Stamped contacts, Thermoplastic shell,	Standard	AC3FCP	
		32.0 [3.228"]	Jaws cable clamp	Gold Plated Contacts	AC3FCP-AU
	ø19.0 [0.748*]		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.



### 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	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	64		KLR 90° right angle female,	3 pole	AC3FR
		l N	Metal shell, Nickel Finish,	4 pole	AC4FR
	- Ingulated		laws cable clamp	5 pole	AC5FR
				6A pole	AC6AFR
				7 pole	AC7FR
	64		KLR 90° right angle male,	3 pole	AC3MMR
		l N	Metal shell, Nickel Finish, Jaws cable clamp	4 pole	AC4MR
		J;		5 pole	AC5MR
				6A pole	AC6AMR
				7 pole	AC7MR

<sup>\*</sup>PI540 is available for download at www.amphenolaudio.com



## 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.

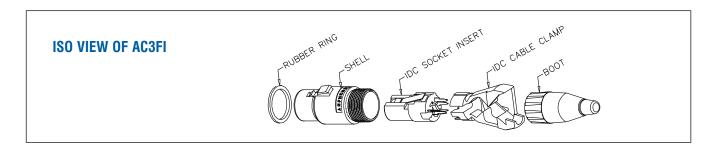
**Options:** Gold plated contacts, Black Finish Shell, Bulk Pack, Coloured Boots / Backshells.

Specifications: page 20

Assembly Instructions: page 19

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	<b>A</b>	-82.0 [3.228"]	XLR 3 pole male, IDC contacts, Nickel Finish, IDC Jaws cable clamp	Standard	AC3MI
0	ø19.0 [0.748″] 0	Name and the second sec	ibo daws cable clamp	Gold Plated Contacts	AC3MI-AU
	<u> </u>			Bulk Pack	AC3MI BULK
	<b> </b>	-82.0 [3.228"]	XLR 3 pole male, IDC contacts, Black Finish, IDC Jaws cable clamp	Standard	AC3MIB
	ø19.0 [0.748*]		ibo dawa cabic ciamp	Gold Plated Contacts	AC3MIB-AU
	<u>¥</u>			Bulk Pack	AC3MIB BULK
	82.0 [3.228"] Ø19.0 [.748"]	XLR 3 pole female, IDC contacts, Nickel Finish, IDC Jaws cable clamp	Standard	AC3FI	
		ibo daws cable clamp	Gold Plated Contacts	AC3FI-AU	
	<u> </u>			Bulk Pack	AC3FI BULK
	82.0 [3.228*] ø19.0 [.748*]	XLR 3 pole female, IDC contacts, Black Finish, IDC Jaws cable clamp	Standard	AC3FIB	
		100 daws dable diamp	Gold Plated Contacts	AC3FIB-AU	
	<u> </u>			Bulk Pack	AC3FIB BULK

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





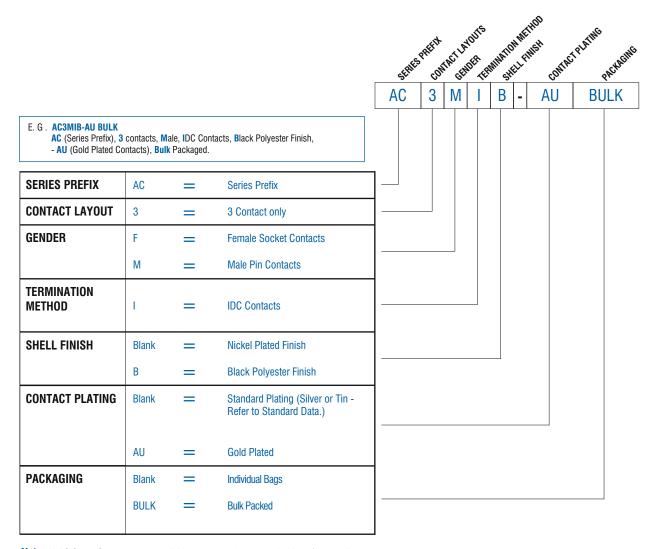
AC SERIES XLR CABLE CONNECTORS

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

## **Amphenol**

## PART NUMBER BREAKDOWN

METAL SHELL TYPE - IDC



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 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 Specifications: page 20

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	82.0 [3.228"]		XLR 3 pole male, IDC contacts, Thermo- plastic shell, IDC Jaws cable clamp	Standard	AC3MCPI
0	ø19.0 [0.748″]		IDC Jaws Cable Claimp	Gold Plated Contacts	AC3MCPI-AU
				Bulk Pack	AC3MCPI BULK
	82.0 [3.228']		XLR 3 pole female, IDC contacts, Thermo- plastic shell,	Standard	AC3FCPI
	Ø19.0 [0.748*]	IDC Jaws cable clamp	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,
	- All (Gold Plated Contacts) Rulk Packaged

SERIES PREFIX	AC	=	Series Prefix
CONTACT LAYOUT	3	=	3 Contacts only
GENDER	F	=	Female Socket Contacts
	М	=	Male Pin Contacts
SHELL MATERIAL	СР	=	Thermoplastic Shell
TERMINATION METHOD	1	=	IDC Contacts
CONTACT PLATING	Blank	=	Standard Plating ( Silver or Tin - Refer to Standard Data.)
	AU	=	Gold Plated
PACKAGING	Blank	=	Individual Bags
	BULK	=	Bulk Packed
1			

SERV	PRETIX	ENDER SHEI	L MA FERRINA	TION NE HOO	PARING
AC	3 M	CP	1 -	AU	BULK

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 SERIES XLR CABLE CONNECTORS

**AC IDC** 

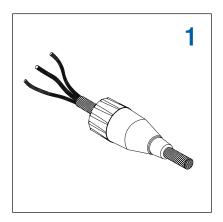
**SERIES CABLE** 

**INSTRUCTIONS** 

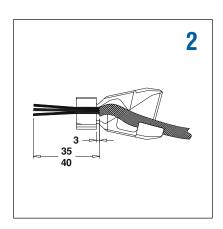
**ASSEMBLY** 

#### **IDC ASSEMBLY INSTRUCTIONS**

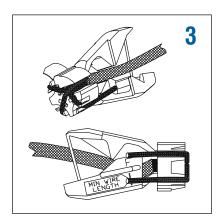
## **Amphenol**



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



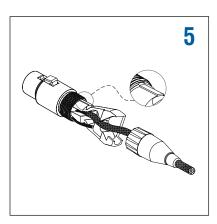
Fit the cable into the 'Jaws' cable clamp ensuring that the cable is pushed up to the neck of the clamp within 3mm.



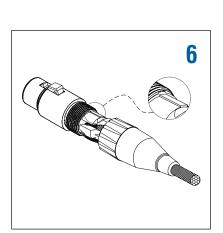
Pull back the conductors into their individual wire guidetracks. Note: Two spring fingers in the clamp will hold the conductors in position during subsequent operations. The ends of the two insulated wires must be on or past the minimum wire length mark.



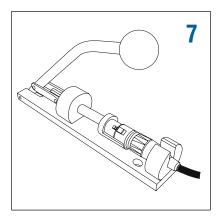
For ground protection the twisted shield wire is clipped in place with the ground protect flap.



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.



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



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



#### STANDARD DATA

## STANDARD DATA AC CABLE CONNECTORS

A
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M

				VALUE			
GENERAL	Number of contacts	3	4	5	6A	7	
CHARACTERISTICS	AC Series Contact Arrangements (Front view of pin inserts)	1 2 0 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	•¹ 4• 2• •³	\$ 3 40	0 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1 7 6 2 6 3 4 4 6	
	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					
ELECTRICAL CHARACTERISTICS	Service Voltage RMS 133V 1)						
	Test Voltage AC RMS	1400V					
	Current carrying capacity:	1A	N/A	N/A	N/A	N/A	
	Solder	15A	10A	7.5A	7.5A	5A	
	Typical Contact Resistance	≤3mΩ					
	Insulation Resistance	≥1GΩ					
CLIMATIC	Protection Class			IP40			
CHARACTERISTICS	Operating Temperature	-25°C to +75°C (-13°F to -167°F)					
MECHANICAL CHARACTERISTICS	Insertion and Withdrawal force			≥10N - ≤30N			
	Weight - Metal 2)	36g	37g	38g	38g	38g	
		(0.080lb)	(0.081lb)	(0.083lb)	(0.083lb)	(0.083lb)	
	Weight - Thermoplastic 2)	18g	19g	20g	20g	20g	
		(0.039lb)	(0.041lb)	(0.044lb)	(0.044lb)	(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>&</sup>lt;sup>2)</sup> Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.

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## **Amphenol**

## AC SERIES XLR CABLE CONNECTORS STANDARD DATA

## 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 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)				
IDC RECOMMENDE CABLE DIMENSION	A - Cable O.D.: Max.	3.00mm (0.11=0.12")(A)  Thermoplastic Elastomer  High Molecular Weight Polyethylene Bare Copper Spiral Shield Min. 90% Coverage 56/.005" (36AWG)				



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

### Наши преимущества:

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- 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.);

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**«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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