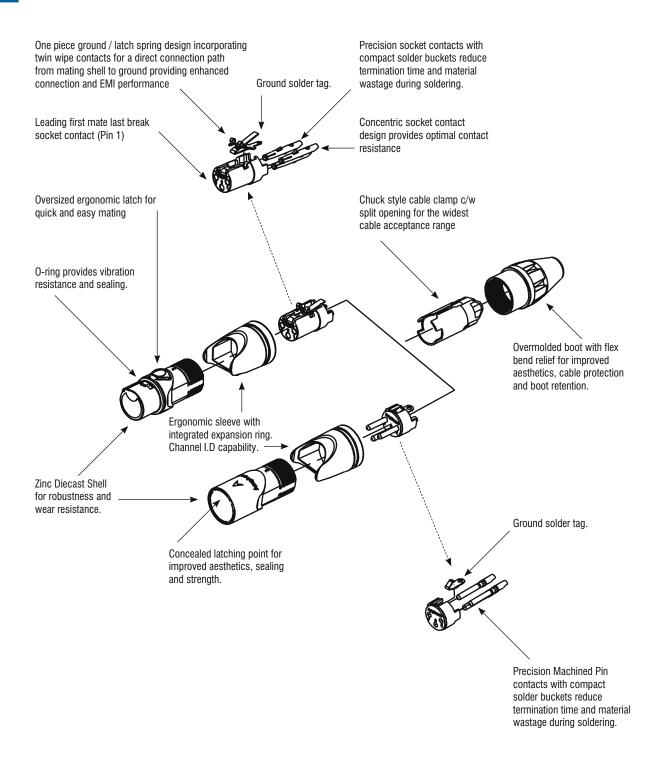
#### **ISO VIEW OF AX SERIES XLR CABLE CONNECTOR**





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.

### AX SERIES XLR CABLE CONNECTORS

### 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.
- Satin nickel or Matt black shell finish.
- · Single or Bulk packaging.

#### Part Number Breakdown: Page 6

**Specifications: Page 9** 

#### Assembly Instructions: Page 7 & 8

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
5000	["44.0] 610 0.744"		Nickel Finish	Gold Plated Contacts	AX3M-AU
	P109	Amplement		Bulk Pack	AX3M BULK
		· 74 [2.80-2.90"]	XLR 3 pole male Machined contacts	Standard	AX3MB
	[747.0] 610		Black Finish	Gold Plated Contacts	AX3MB-AU
	010			Bulk Pack	AX3MB BULK
	š 		XLR 3 pole female Stamped contacts	Standard	AX3F
6/100		Nickel Finish	Gold Plated Contacts	AX3F-AU	
				Bulk Pack	AX3F BULK
	§g _=71-7	′4 [2.80-2.90"]————————————————————————————————————	XLR 3 pole female Stamped contacts	Standard	AX3FB
SILVE			Black Finish	Gold Plated Contacts	AX3FB-AU
				Bulk Pack	AX3FB BULK
		· 74 [2.80-2.90"]	XLR 4 pole male Machined contacts	Standard	AX4M
		Nickel Finish	Gold Plated Contacts	AX4M-AU	
	l cto			Bulk Pack	AX4M BULK

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

ENTERTAINMENT INTERCONNECT CATALOGUE - Amphenol Australia Pty Ltd Telephone 61 3 8796 8888 Fax 61 3 8796 8801

**METAL SHELL TYPE - SOLDER** 

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	F -	71 - 74 <b>[2.80-2.90"]</b>	XLR 4 pole male Machined contacts	Standard	AX4MB
- Alexandre	["##Z.0] 6100 ["##Z.0] 6100		Black Finish	Gold Plated Contacts	AX4MB-AU
				Bulk Pack	AX4MB BULK
	Ø15.7 [0.618 <sup>-</sup> ]	71 - 74 [2.80-2.90"]	XLR 4 pole female Machined contacts	Standard	AX4F
F	Ø15.7 [		Nickel Finish	Gold Plated Contacts	AX4F-AU
				Bulk Pack	AX4F BULK
			XLR 4 pole female	Standard	AX4FB
Ø15.7 [0.6187]	[0.618	71 - 74 [2.80-2.90"]~	Machined contacts Black Finish	Gold Plated Contacts	AX4FB-AU
			Didok Timon		AAH D-AU
			Bulk Pack	AX4FB BULK	
		71 - 74 [2.80-2.90"] 51 51 51 51 51 51 51 51 51 51 51 51 51 5	XLR 5 pole male Machined contacts	Standard	AX5M
-	[0.744"]		Nickel Finish	Gold Plated Contacts	AX5M-AU
	200			Bulk Pack	AX5M BULK
		71 - 74 <b>[2.80-2.90"]</b>	XLR 5 pole male	Standard	AX5MB
3000	Lipt 201 2012		Machined contacts Black Finish	Gold Plated Contacts	AX5MB-AU
	610			Bulk Pack	AX5MB BULK
		71 - 74 <b>[2.80-2.90"]</b> ⊨_	XLR 5 pole female	Standard	AX5F
	Ø15.7 [0.618 <sup>-</sup> ]		Machined contacts Nickel Finish	Gold Plated Contacts	AX5F-AU
50				Bulk Pack	AX5F BULK
	5	71 74 73 00 3 001	XLR 5 pole female	Standard	AX5FB
60			Machined contacts Black Finish	Gold Plated Contacts	AX5FB-AU
				Bulk Pack	AX5FB BULK

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

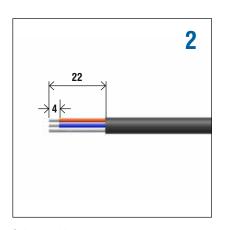
### PART NUMBER BREAKDOWN

METAL SHELL TYPE - SOLDER

				stills	PRETA	A	UITS UNER	outs genetit sutilities	BUTS SHELL HUSH	ours officer stell must cont M B 2 - AU
				AX	<sup>CON</sup>		M	<u>stri stit</u> M B	GERSHLSHLMB2	office     office     office       M     B     2     -     AU
E. G . AX3MB2-AU BULK AX (Series Prefix), 3 2 (Red Sleeve)- AU	3 contacts, N (Gold Plated	<b>N</b> ale, <b>B</b> lack F I Contacts), I	inish, Bulk Packaged.							
SERIES PREFIX	AX	=	Series Prefix							
CONTACT LAYOUTS	3	=	3 Contacts	1						
	4	=	4 Contacts							
	5	=	5 Contacts							
ENDER	F	=	Female Socket Contacts	1						
	М	=	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							
CONTACT PLATING	Blank	=	Standard Plating ( Silver or Tin - Refer to Standard Data.)							
	AU	=	Gold Plated							]
PACKAGING	Blank	=	Individual Bags	7						
	BULK	=	Bulk Packed							



Slide the nut (Backshell) onto the cable



Strip the cable



Push back the insert only enough to expose the solder buckets. It is not necessary to remove the insert. Solder the wires to the contacts.



PI539 ASSEMBLY INSTRUCTIONS

AX SERIES FEMALE XLR CABLE CONNECTOR

4

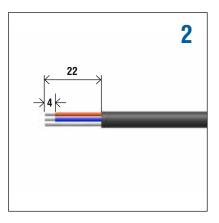
Install the cable clamp, flush to the insert making sure to align the top slot with the spring. Then push the insert & cable clamp together into the shell.



Thread the nut (Backshell) onto the shell (Torque 0.8Nm - 1.2Nm) to activate the cable clamp and close the connector assembly.



Slide the nut (Backshell) onto the cable



Strip the cable



Solder the wires to the contacts.



Install the cable clamp flush to the insert making sure to align the slot with the ground contact.



Align the key of the insert with the keyway on the shell then push the pin insert & cable clamp together in the shell.

### PI538 ASSEMBLY INSTRUCTIONS

AX SERIES MALE XLR CABLE CONNECTOR



Thread the nut (Backshell) onto the shell (Torque 0.8Nm - 1.2Nm) to activate the cable clamp and close the connector assembly.

**STANDARD DATA** 

### **STANDARD DATA AX SERIES CABLE CONNECTORS**

			VALUE							
GENERAL	Number of contacts	3	4	5						
CHARACTERISTICS	AX Series Contact Arrangements (Front view of pin inserts)									
	Termination		SOLDER							
	Max. Wire Gauge - Stranded wire: Solder	14AWG	16AWG	18AWG						
	Flammability rating of insulator plastics and housings		UL94V-0							
	Environmental	Complie	es with EU RoHS 2 Directive 201	1/65/EU						
ELECTRICAL Characteristics	Service Voltage RMS		133V <sup>1)</sup>							
GIANAGIENISTICS	Test Voltage AC RMS		1400V							
	Current carrying capacity: Solder	15A 10A		7.5A						
	Typicial Contact Resistance	≤3m Ω								
	Insulation Resistance		≥1G Ω							
CLIMATIC Characteristics	Protection Class		IP40							
	Operating Temperature	-1	25°C to +75°C (-13°F to -167°	F)						
MECHANICAL Characteristics	Insertion and Withdrawal force		≥10N - ≤30N							
	Weight <sup>2)</sup>	31g (0.068lb)	33g (0.073lb)	33g (0.073lb)						
	Typical Cable retention force	22Kg to 44Kg (50lb t	to 100lb) - Dependent on cable r	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		JL94V-0 Noryl N190 / Santoprer , other colours available - see pa							
	Cable clamp		Noryl N190							
	Sleeve		Noryl N190							
	Male Contact Machined - Solder / Plating		Brass / Silver or Gold (Optional)							
	Female Contact Stamped - Solder / Plating	Pho	sphor Bronze / Tin or Gold (Opti	onal)						

Rev 3 - 03/2013

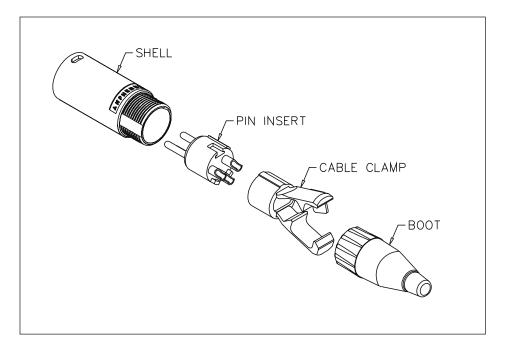
<sup>1)</sup> Not suitable for domestic applications above 50V

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

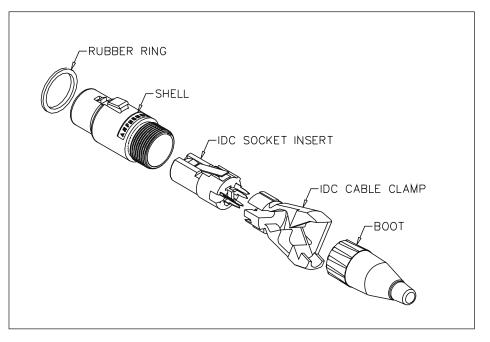
ENTERTAINMENT INTERCONNECT CATALOGUE - Amphenol Australia Pty Ltd Telephone 61 3 8796 8888 Fax 61 3 8796 8801



**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 quickly and easily assembled without screws – by hand or portable termination tool. (Part number T2860)
- Àvailable 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 0.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 0.D 5.85mm (0.23") • Metal Boots / Backshells
- Metal Boots / Backsnells
  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**

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

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- 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:

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

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

#### Part Number Breakdown: Page 15

**Specifications: Page 21** 

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	12		XLR 3 pole male, Machined contacts,	Standard	AC3MM
			Nickel Finish,	Gold Plated Contacts	AC3MM-AU
	ø19.0 [0.748″] 0		Jaws cable clamp	Large Cable Clamp	AC3MMJ
	¥			Bulk Pack	AC3MM BULK
	V		XLR 3 pole male, Machined contacts,	Standard	AC3MMB
	<u></u>		Black Finish, Jaws cable clamp	Gold Plated Contacts	AC3MMB-AU
	ø19.0 [0.748″] 0			Large Cable Clamp	AC3MMBJ
	¥			Bulk Pack	AC3MMB BULK
	Υ		XLR 3 pole male, Stamped contacts,	Standard	AC3M
	<u></u> ф		Nickel Finish, Jaws cable clamp	Gold Plated Contacts	AC3M-AU
	Ø19.0 [0.748*] ŷ			Large Cable Clamp	AC3MJ
				Bulk Pack	AC3M BULK
	82.0 [3.228*]	XLR 3 pole male, Stamped contacts, Black Finish, Jaws cable clamp	Standard	AC3MB	
			Gold Plated Contacts	AC3MB-AU	
	ø19.0 [0.748″] 0		Jaws cable clamp	Large Cable Clamp	AC3MBJ
	<u> </u>			Bulk Pack	AC3MB BULK
	₽		XLR 3 pole female, Stamped contacts,	Standard	AC3F
			Nickel Finish, Jaws cable clamp	Gold Plated Contacts	AC3F-AU
	ø19.0 [.748″]			Large Cable Clamp	AC3FJ
	¥			Bulk Pack	AC3F BULK
	₽		XLR 3 pole female, Stamped contacts,	Standard	AC3FB
			Black Finish, Jaws cable clamp	Gold Plated Contacts	AC3FB-AU
			Large Cable Clamp	AC3FBJ	
	<u> </u>			Bulk Pack	AC3FB BULK



**METAL SHELL TYPE - SOLDER** 

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	₩	XLR 4 pole male, Machined contacts,	Standard	AC4M
		Nickel Finish, Jaws cable clamp	Gold Plated Contacts	AC4M-AU
	ø19.0 [0.748*] 0	Jaws Cable Clamp	Large Cable Clamp	AC4MJ
			Bulk Pack	AC4M BULK
	₩	XLR 4 pole male, Machined contacts,	Standard	AC4MB
		Black Finish, Jaws cable clamp	Gold Plated Contacts	AC4MB-AU
6	ø19.0 [0.748*] 0	Jaws cable clamp	Large Cable Clamp	AC4MBJ
			Bulk Pack	AC4MB BULK
	₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	XLR 4 pole female, Machined contacts,	Standard	AC4F
and the second s		Nickel Finish, Jaws cable clamp	Gold Plated Contacts	AC4F-AU
	ø19.0 [.748']	Jaws Cable Clamp	Large Cable Clamp	AC4FJ
			Bulk Pack	AC4F BULK
-	₩	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
			Bulk Pack	AC4FB BULK
	⊨−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−−	XLR 5 pole male, Machined contacts,	Standard	AC5M
		Nickel Finish, Jaws cable clamp	Gold Plated Contacts	AC5M-AU
			Large Cable Clamp	AC5MJ
			Bulk Pack	AC5M BULK
	₽	XLR 5 pole male, Machined contacts,	Standard	AC5MB
		Black Finish, Jaws cable clamp	Gold Plated Contacts	AC5MB-AU
		Jaws cable clamp	Large Cable Clamp	AC5MBJ
			Bulk Pack	AC5MB BULK
	⊭	XLR 5 pole female, Machined contacts,	Standard	AC5F
		Nickel Finish, Jaws cable clamp	Gold Plated Contacts	AC5F-AU
	¢19.0 [.7.48"]	Jaws Cable Clamp	Large Cable Clamp	AC5FJ
			Bulk Pack	AC5F BULK
	₽	XLR 5 pole female, Machined contacts	Standard	AC5FB
		Machined contacts, Black Finish, Jaws cable clamp	Gold Plated Contacts	AC5FB-AU
	ø19.0 [.748*]	טמאיש טמטול טומווף	Large Cable Clamp	AC5FBJ
			Bulk Pack	AC5FB BULK

AC SERIES XLR CABLE CONNECTORS

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

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	5	-82.0 [3.228"]	XLR 6A pole male, Machined contacts,	Standard	AC6AM
100			Nickel Finish, Jaws cable clamp	Gold Plated Contacts	AC6AM-AU
	ø19.0 [0.748″]		Jaws cable clamp	Large Cable Clamp	AC6AMJ
	¥[			Bulk Pack	AC6AM BULK
	8	-82.0 [3.228"]	XLR 6A pole male, Machined contacts,	Standard	AC6AMB
			Black Finish, Jaws cable clamp	Gold Plated Contacts	AC6AMB-AU
	ø19.0 [0.748″] 0			Large Cable Clamp	AC6AMBJ
	¥[			Bulk Pack	AC6AMB BULK
	<b>A</b>	-82.0 [3.228″]	XLR 6A pole female, Machined contacts,	Standard	AC6AF
			Nickel Finish, Jaws cable clamp	Gold Plated Contacts	AC6AF-AU
	ø19.0 [.748″]			Large Cable Clamp	AC6AFJ
	¥U			Bulk Pack	AC6AF BULK
-	P	-82.0 [3.228"]	XLR 6A pole female, Machined contacts, Black Finish, Jaws cable clamp	Standard	AC6AFB
				Gold Plated Contacts	AC6AFB-AU
	ø19.0 [.748″]			Large Cable Clamp	AC6AFBJ
				Bulk Pack	AC6AFB BULK
	82.0 [3.228"]	XLR 7 pole male, Gold plated Machined contacts, Nickel Finish,	Standard	AC7M	
	ø19.0 [0.748″] 0		Jaws cable clamp	Large Cable Clamp	AC7MJ
	<u>v                                    </u>			Bulk Pack	AC7M BULK
		-82.0 [3.228"]	XLR 7 pole male, Gold plated Machined contacts, Black Finish,	Standard	AC7MB
	ø19.0 [0.748″] 0		Jaws cable clamp	Large Cable Clamp	AC7MBJ
-	¥(			Bulk Pack	AC7MB BULK
		-82.0 [3.228"]	XLR 7 pole female, Gold plated Machined contacts, Nickel Finish,	Standard	AC7F
	Jaws cable clamp	Large Cable Clamp	AC7FJ		
	<u> </u>			Bulk Pack	AC7F BULK
		-82.0 [3.228"]	XLR 7 pole female, Gold plated Machined contacts, Black Finish,	Standard	AC7FB
	ø19.0 [.748″]		Jaws cable clamp	Large Cable Clamp	AC7FBJ
			Bulk Pack	AC7FB BULK	





**METAL SHELL TYPE - SOLDER** 

### PART NUMBER BREAKDOWN

**METAL SHELL TYPE - SOLDER** 

					EFIT		NOUTS			્ય		MP	DATING
				SERI	SPRETI	MACTLE	NDER	CONTRET	SHELL	cinite of	HBLECH	CONTR	PREMIER
				AC	3	Μ	Ν	1	В	L	-	AU	BULK
E. G . AC3MMBJ-AU BULI AC (Series Prefix), 3 J (Large Jaws),- AU	contacts, M		ed Contacts, <b>Bl</b> ack Polyester Finish, B <b>ulk</b> Packaged.										
SERIES PREFIX	AC	=	Series Prefix	]									
CONTACT LAYOUTS	3	=	3 Contacts										
	4	=	4 Contacts										
	5	=	5 Contacts										
	6A	=	6 Contacts										
	7	=	7 Contacts										
GENDER	F	=	Female Socket Contacts	1									
	м	=	Male Pin Contacts			]							
<b>CONTACT</b> <sup>1</sup>	Blank	=	Stamped Contacts										
	М	=	Machined Contacts										
	G	=	Stamped Contacts, Ground Tag										
	MG	=	Machined Contacts, Ground Tag (Applicable 3 male pin contacts, option M and MG only)										
SHELL FINISH <sup>2</sup>	Blank	=	Nickel Plated Finish	1									
	В	=	Black Polyester Finish										
CABLE CLAMP	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")										
CONTACT PLATING <sup>3</sup>	Blank	=	Standard Plating ( Silver or Tin - Refer to Standard Data.)	1									
	AU	=	Gold Plated										
PACKAGING	Blank	=	Individual Bags	1									
	BULK	=	Bulk Packed										

#### Note:

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

 $^{2}% \left( \mathcal{A}^{2}\right) =0$  Ground contacts are not supplied with the black polyester finish shell option.

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

<sup>4</sup> All AC Series Connectors are available with optional colour coded boot / backshell. Refer to page 137 and simply add colour to end of part number. Example: AC3MM - RED

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#### **THERMOPLASTIC SHELL TYPE - SOLDER**



#### Features:

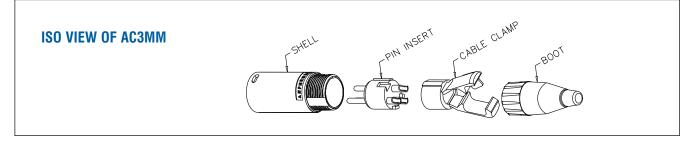
- Thermoplastic Shell.
- Solder Bucket Connections.
- "Jaws" Cable Retention System.
- Stamped or Machined Contacts.
- Leading first mate last break socket contact.
- Quick and easy assembly without screws by hand or portable termination tool. (Part number T2860.)

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

#### **Specifications: Page 21**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		-82.0 [3.228"]	XLR 3 pole male, Machined contacts, Thermoplastic shell,	Standard	AC3MMCP
ø19.0 [0.748*] \$	∮ Ø19.0 [0.748*]		Jaws cable clamp	Gold Plated Contacts	AC3MMCP-AU
	¥(			Large Cable Clamp	AC3MMCPJ
				Bulk Pack	AC3MMCP BULK
		-82.0 [3.228*]	XLR 3 pole male, Stamped contacts, Thermoplastic shell,	Standard	AC3MCP
	¢19.0 [0.748"]	Jaws cable clamp	Gold Plated Contacts	AC3MCP-AU	
8			Large Cable Clamp	AC3MCPJ	
			Bulk Pack	AC3MCP BULK	
			XLR 3 pole female, Stamped contacts, Thermoplastic shell,	Standard	AC3FCP
			Jaws cable clamp	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.





#### 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 22

#### 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.

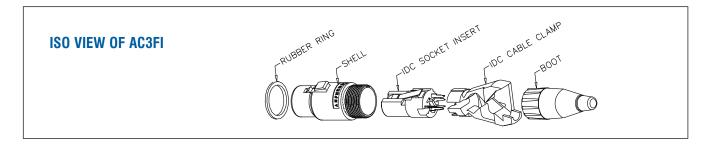
**Options:** Black Finish Shell, Bulk Pack, Coloured Boots / Backshells

#### Specifications: Page 21

Assembly Instructions: Page 20

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			XLR 3 pole male, IDC contacts,	Standard	AC3MI
	ø19.0 [0.748*] \$		Nickel Finish, IDC Jaws cable clamp	Bulk Pack	AC3MI BULK
		82.0 [3.228"]	XLR 3 pole male, IDC contacts,	Standard	AC3MIB
	ø19.0 [0.748*] ↓		Black Finish, IDC Jaws cable clamp	Bulk Pack	AC3MIB BULK
	Ø19.0 [.748']	XLR 3 pole female, IDC contacts,	Standard	AC3FI	
		Nickel Finish, IDC Jaws cable clamp	Bulk Pack	AC3FI BULK	
	82.0 [3.228"]	XLR 3 pole female, IDC contacts,	Standard	AC3FIB	
	ø19.0 [.748*]		Black Finish, IDC Jaws cable clamp	Bulk Pack	AC3FIB BULK

Note: Amphenol can not guarantee the termination performance unless the recommended cable dimensions listed on page 22 are followed.





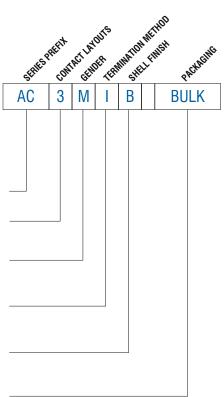


**METAL SHELL TYPE - IDC (SOLDERLESS)** 

### PART NUMBER BREAKDOWN

METAL SHELL TYPE - IDC

E. G . AC3MIB BULK AC (Series Prefix), 3 - Bulk Packaged.	contacts, N	lale, IDC Co	ntacts, <b>Bl</b> ack Polyester Finish,	
SERIES PREFIX	AC	=	Series Prefix	
CONTACT LAYOUT	3	=	3 Contact only	
GENDER	F	=	Female Socket Contacts	
GENDER	М	=	Male Pin Contacts	
TERMINATION Method	I	=	IDC Contacts	
	Blank	=	Nickel Plated Finish	
SHELL FINISH	В	=	Black Polyester Finish	
DACKACINC	Blank	=	Individual Bags	
PACKAGING	BULK	=	Bulk Packed	



Note: All AC Series Connectors are available with optional colour coded boot / backshell. Refer to page 139 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 22** 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: Bulk Pack, Coloured Boots / Backshells

#### **Specifications: Page 21**

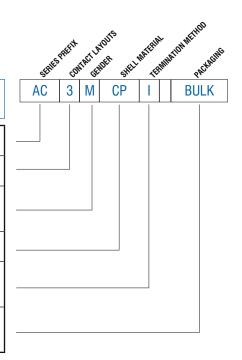
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		-82.0 [3.228"]	XLR 3 pole male, IDC contacts,	Standard	AC3MCPI
	ø19.0 [0.748*]		Thermoplastic shell, IDC Jaws cable clamp	Bulk Pack	AC3MCPI BULK
		-82.0 [3.228"]	XLR 3 pole female, IDC contacts,	Standard	AC3FCPI
	Ø19.0 [0.748"]		Thermoplastic shell, IDC Jaws cable clamp	Bulk Pack	AC3FCPI BULK

Note: Amphenol can not guarantee the termination performance unless the recommended cable dimensions listed on page 22 are followed.

### PART NUMBER BREAKDOWN

IDC THERMOPLASTIC SHELL TYPE

E. G. AC3MCPI BULK AC (Series Prefix), 3 contacts, Male, CP (Thermoplastic Shell), IDC Contacts, - Bulk Packaged.							
SERIES PREFIX	AC	=	Series Prefix				
CONTACT LAYOUT	3	=	3 Contact only				
GENDER	F M	= =	Female Socket Contacts Male Pin Contacts				
SHELL MATERIAL	СР	=	Thermoplastic Shell				
TERMINATION METHOD	1	=	IDC Contacts				
PACKAGING	Blank BULK	=	Individual Bags Bulk Packed				



Note: All AC Series Connectors are available with optional colour coded boot / backshell.

Refer to page 80 and simply add colour to end of part number. Example: AC3MCPI - RED

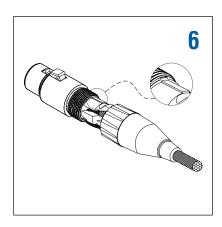
www.amphenolaudio.com

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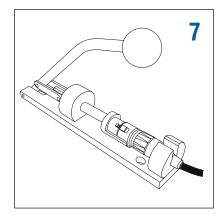


**IDC ASSEMBLY INSTRUCTIONS** 

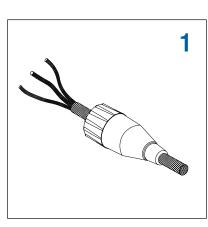
### AC IDC SERIES CABLE ASSEMBLY INSTRUCTIONS



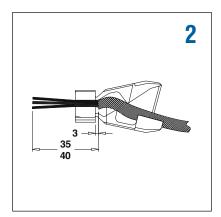
Close the cable clamp slightly and push the boot over the clamp ensuring the wires fit inside the boot.



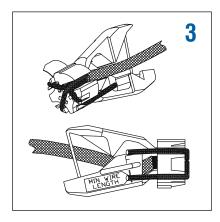
Final assembly can be achieved either by manually screwing the boot on, or by using an Amphenol Australia T2860 termination tool.



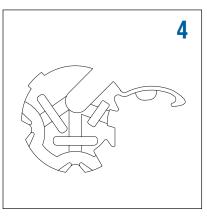
Push the cable through the boot assembly and strip the cable back 35 to 40 mm. Twist the shield wire.



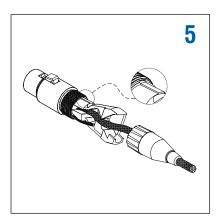
Fit the cable into the 'Jaws' cable clamp ensuring that the cable is pushed up to the neck of the clamp within 3mm.



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.



**STANDARD DATA** 

### **STANDARD DATA AC CABLE CONNECTORS**

		VALUE					
GENERAL CHARACTERISTICS	Number of contacts	3	4	5	6A	7	
	AC Series Contact Arrangements (Front view of pin inserts)					$\begin{pmatrix} 1 & 5 \\ 0 & 2 \\ 0 & 3 \\ 0 & 3 \\ 0 $	
	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	Service Voltage RMS	133V <sup>1)</sup>					
CHARACTERISTICS	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	s3mΩ					
	Insulation Resistance	≥1GΩ					
CLIMATIC	Protection Class	IP40					
CHARACTERISTICS	Operating Temperature	-25°C to +75°C (-13°F to +167°F)					
MECHANICAL	Insertion and Withdrawal force	≥10N - ≤30N					
CHARACTERISTICS	Weight - Metal <sup>2)</sup>	36g	37g	38g	38g	38g	
		(0.080lb)	(0.081lb)	(0.083lb)	(0.083lb)	(0.083lb)	
	Weight - Thermoplastic <sup>2)</sup>	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					

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Rev 5 - 05/2014

 $^{\scriptscriptstyle 1)}$  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.



**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				
	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				
	Stamped - Solder / Plating	Phosphor Bronze / Tin or Gold (Optional)				
	Machined - Solder / Plating	Brass / Silver or Gold (Optional)				
IDC RECOMMENDED CABLE DIMENSIONS						