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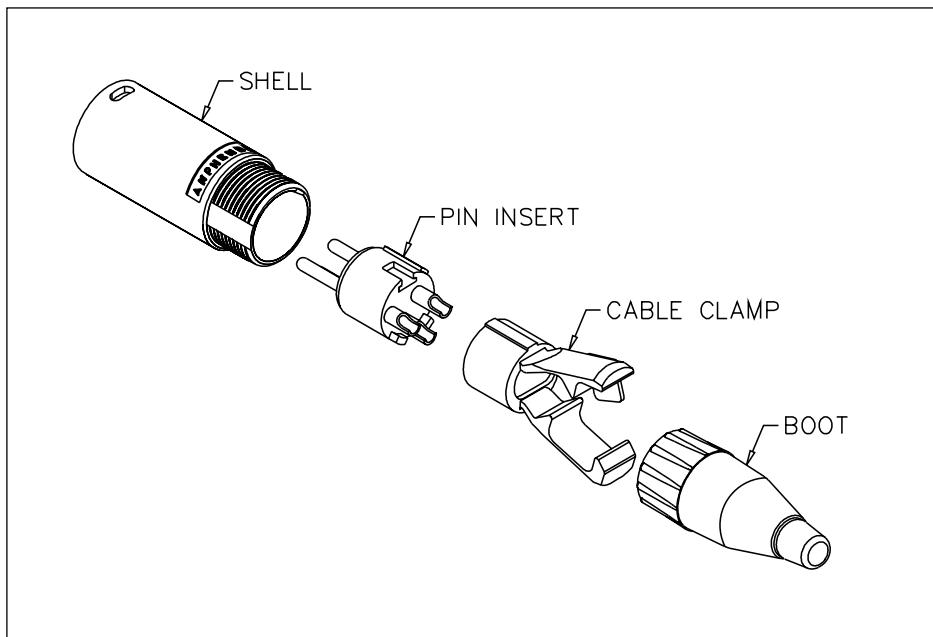
# Amphenol



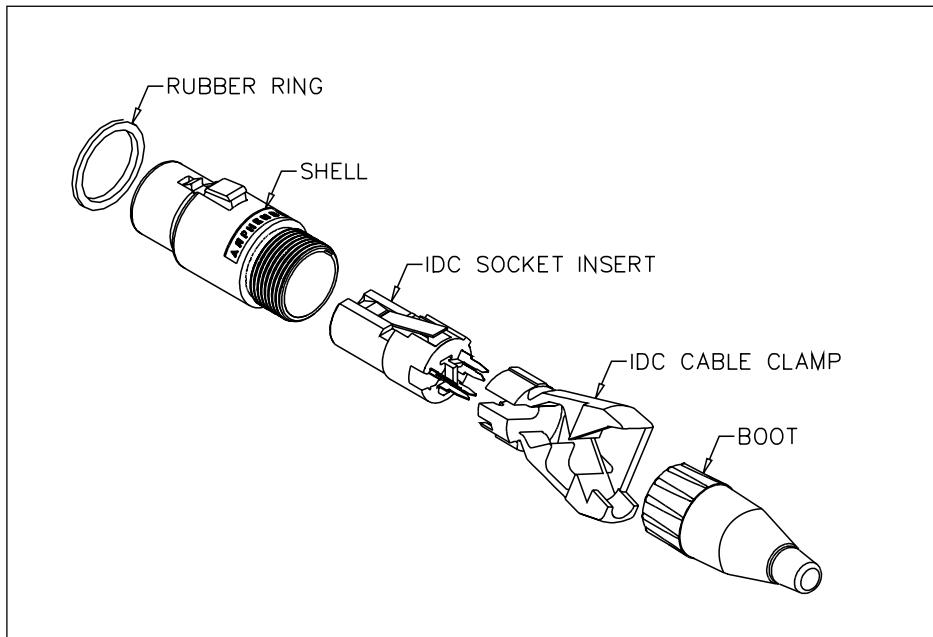
AC SERIES XLR CABLE CONNECTORS



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 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

## AC SERIES XLR CABLE CONNECTORS



### 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

### 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.s 5,305,547 and 5,439,388

### 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")

### 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.



AC SERIES XLR CABLE CONNECTORS

METAL SHELL TYPE - SOLDER



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**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	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		82.0 [3.228"] Ø19.0 [0.748"]	XLR 3 pole male, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC3MM
		82.0 [3.228"] Ø19.0 [0.748"]		Gold Plated Contacts	AC3MM-AU
		82.0 [3.228"] Ø19.0 [0.748"]		Large Cable Clamp	AC3MMJ
		82.0 [3.228"] Ø19.0 [0.748"]		Bulk Pack	AC3MM BULK
		82.0 [3.228"] Ø19.0 [0.748"]	XLR 3 pole male, Machined contacts, Black Finish, Jaws cable clamp	Standard	AC3MMB
		82.0 [3.228"] Ø19.0 [0.748"]		Gold Plated Contacts	AC3MMB-AU
		82.0 [3.228"] Ø19.0 [0.748"]		Large Cable Clamp	AC3MMBJ
		82.0 [3.228"] Ø19.0 [0.748"]		Bulk Pack	AC3MMB BULK
		82.0 [3.228"] Ø19.0 [0.748"]	XLR 3 pole male, Stamped contacts, Nickel Finish, Jaws cable clamp	Standard	AC3M
		82.0 [3.228"] Ø19.0 [0.748"]		Gold Plated Contacts	AC3M-AU
		82.0 [3.228"] Ø19.0 [0.748"]		Large Cable Clamp	AC3MJ
		82.0 [3.228"] Ø19.0 [0.748"]		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
		82.0 [3.228"] Ø19.0 [0.748"]		Gold Plated Contacts	AC3MB-AU
		82.0 [3.228"] Ø19.0 [0.748"]		Large Cable Clamp	AC3MBJ
		82.0 [3.228"] Ø19.0 [0.748"]		Bulk Pack	AC3MB BULK
		82.0 [3.228"] Ø19.0 [0.748"]	XLR 3 pole female, Stamped contacts, Nickel Finish, Jaws cable clamp	Standard	AC3F
		82.0 [3.228"] Ø19.0 [0.748"]		Gold Plated Contacts	AC3F-AU
		82.0 [3.228"] Ø19.0 [0.748"]		Large Cable Clamp	AC3FJ
		82.0 [3.228"] Ø19.0 [0.748"]		Bulk Pack	AC3F BULK
		82.0 [3.228"] Ø19.0 [0.748"]	XLR 3 pole female, Stamped contacts, Black Finish, Jaws cable clamp	Standard	AC3FB
		82.0 [3.228"] Ø19.0 [0.748"]		Gold Plated Contacts	AC3FB-AU
		82.0 [3.228"] Ø19.0 [0.748"]		Large Cable Clamp	AC3FBJ
		82.0 [3.228"] Ø19.0 [0.748"]		Bulk Pack	AC3FB BULK

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AC SERIES XLR CABLE CONNECTORS

METAL SHELL TYPE - SOLDER



PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		82.0 [3.228"] Ø19.0 [0.748"]	XLR 4 pole male, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC4M
		82.0 [3.228"] Ø19.0 [0.748"]		Gold Plated Contacts	AC4M-AU
		82.0 [3.228"] Ø19.0 [0.748"]		Large Cable Clamp	AC4MJ
		82.0 [3.228"] Ø19.0 [0.748"]		Bulk Pack	AC4M BULK
		82.0 [3.228"] Ø19.0 [0.748"]	XLR 4 pole female, Stamped contacts, Nickel Finish, Jaws cable clamp	Standard	AC4F
		82.0 [3.228"] Ø19.0 [0.748"]		Gold Plated Contacts	AC4F-AU
		82.0 [3.228"] Ø19.0 [0.748"]		Large Cable Clamp	AC4FJ
		82.0 [3.228"] Ø19.0 [0.748"]		Bulk Pack	AC4F BULK
		82.0 [3.228"] Ø19.0 [0.748"]	XLR 4 pole female, Stamped contacts, Black Finish, Jaws cable clamp	Standard	AC4FB
		82.0 [3.228"] Ø19.0 [0.748"]		Gold Plated Contacts	AC4FB-AU
		82.0 [3.228"] Ø19.0 [0.748"]		Large Cable Clamp	AC4FBJ
		82.0 [3.228"] Ø19.0 [0.748"]		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
		82.0 [3.228"] Ø19.0 [0.748"]		Gold Plated Contacts	AC5M-AU
		82.0 [3.228"] Ø19.0 [0.748"]		Large Cable Clamp	AC5MJ
		82.0 [3.228"] Ø19.0 [0.748"]		Bulk Pack	AC5M BULK
		82.0 [3.228"] Ø19.0 [0.748"]	XLR 5 pole male, Machined contacts, Black Finish, Jaws cable clamp	Standard	AC5MB
		82.0 [3.228"] Ø19.0 [0.748"]		Gold Plated Contacts	AC5MB-AU
		82.0 [3.228"] Ø19.0 [0.748"]		Large Cable Clamp	AC5MBJ
		82.0 [3.228"] Ø19.0 [0.748"]		Bulk Pack	AC5MB BULK
		82.0 [3.228"] Ø19.0 [0.748"]	XLR 5 pole female, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC5F
		82.0 [3.228"] Ø19.0 [0.748"]		Gold Plated Contacts	AC5F-AU
		82.0 [3.228"] Ø19.0 [0.748"]		Large Cable Clamp	AC5FJ
		82.0 [3.228"] Ø19.0 [0.748"]		Bulk Pack	AC5F BULK
		82.0 [3.228"] Ø19.0 [0.748"]	XLR 5 pole female, Machined contacts, Black Finish, Jaws cable clamp	Standard	AC5FB
		82.0 [3.228"] Ø19.0 [0.748"]		Gold Plated Contacts	AC5FB-AU
		82.0 [3.228"] Ø19.0 [0.748"]		Large Cable Clamp	AC5FBJ
		82.0 [3.228"] Ø19.0 [0.748"]		Bulk Pack	AC5FB BULK



AC SERIES XLR CABLE CONNECTORS

METAL SHELL TYPE - SOLDER

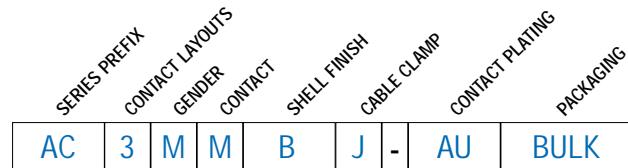
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PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		82.0 [3.228"] Ø19.0 [0.748"]	XLR 6A pole male, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC6AM
		82.0 [3.228"] Ø19.0 [0.748"]		Gold Plated Contacts	AC6AM-AU
		82.0 [3.228"] Ø19.0 [0.748"]		Large Cable Clamp	AC6AMJ
		82.0 [3.228"] Ø19.0 [0.748"]		Bulk Pack	AC6AM BULK
		82.0 [3.228"] Ø19.0 [0.748"]	XLR 6A pole female, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC6AF
		82.0 [3.228"] Ø19.0 [0.748"]		Gold Plated Contacts	AC6AF-AU
		82.0 [3.228"] Ø19.0 [0.748"]		Large Cable Clamp	AC6AFJ
		82.0 [3.228"] Ø19.0 [0.748"]		Bulk Pack	AC6AF BULK
		82.0 [3.228"] Ø19.0 [0.748"]	XLR 6A pole female, Machined contacts, Black Finish, Jaws cable clamp	Standard	AC6AFB
		82.0 [3.228"] Ø19.0 [0.748"]		Gold Plated Contacts	AC6AFB-AU
		82.0 [3.228"] Ø19.0 [0.748"]		Large Cable Clamp	AC6AFBJ
		82.0 [3.228"] Ø19.0 [0.748"]		Bulk Pack	AC6AFB BULK
		82.0 [3.228"] Ø19.0 [0.748"]	XLR 7 pole male, Gold plated Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC7M
		82.0 [3.228"] Ø19.0 [0.748"]		Large Cable Clamp	AC7MJ
		82.0 [3.228"] Ø19.0 [0.748"]		Bulk Pack	AC7M BULK
		82.0 [3.228"] Ø19.0 [0.748"]	XLR 7 pole male, Gold plated Machined contacts, Black Finish, Jaws cable clamp	Standard	AC7MB
		82.0 [3.228"] Ø19.0 [0.748"]		Large Cable Clamp	AC7MBJ
		82.0 [3.228"] Ø19.0 [0.748"]		Bulk Pack	AC7MB BULK
		82.0 [3.228"] Ø19.0 [0.748"]	XLR 7 pole female, Gold plated Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC7F
		82.0 [3.228"] Ø19.0 [0.748"]		Large Cable Clamp	AC7FJ
		82.0 [3.228"] Ø19.0 [0.748"]		Bulk Pack	AC7F BULK
		82.0 [3.228"] Ø19.0 [0.748"]	XLR 7 pole female, Gold plated Machined contacts, Black Finish, Jaws cable clamp	Standard	AC7FB
		82.0 [3.228"] Ø19.0 [0.748"]		Large Cable Clamp	AC7FBJ
		82.0 [3.228"] Ø19.0 [0.748"]		Bulk Pack	AC7FB BULK

## PART NUMBER BREAKDOWN

### METAL SHELL TYPE - SOLDER



E. G . AC3MMBJ-AU BULK

AC (Series Prefix), 3 contacts, Male, Machined Contacts, Black Polyester Finish, J (Large Jaws), - AU (Gold Plated Contacts), Bulk 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
	M	=	Male Pin Contacts
CONTACT	Blank	=	Stamped Contacts
	M	=	Machined Contacts (Applicable 3 male pin contacts only)
	NOTE: 4 - 7 contact connectors have machined contacts as standard. They are not available in stamped contacts.		
SHELL FINISH	Blank	=	Nickel Plated Finish
	B	=	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	Blank	=	Standard Plating ( Silver or Tin - Refer to Standard Data.)
	NOTE: 7 Contact is gold plated as standard.		
	AU	=	Gold Plated
PACKAGING	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



AC SERIES XLR CABLE CONNECTORS

THERMOPLASTIC SHELL TYPE - SOLDER

# Amphenol



## 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.)

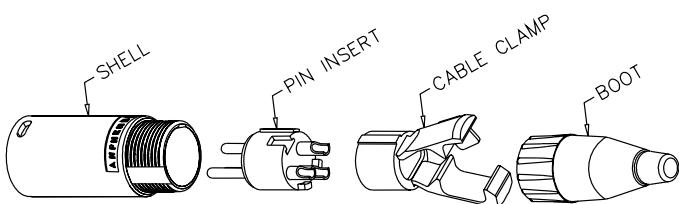
**Options:** Gold Plated Contacts, Stamped Contacts (3 Contact only), Bulk Pack, Coloured Boots / Backshells 3, 4, 5, 6A and 7 Contacts.

**Specifications:** Page 13-14

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

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

## ISO VIEW OF AC3MM



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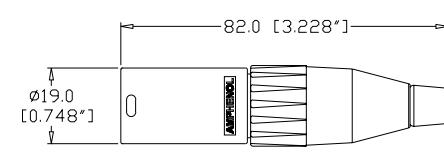
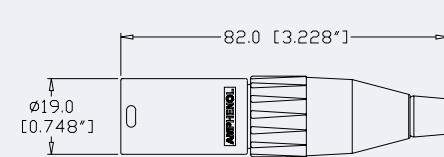
The Insulation Displacement Contact (IDC) connector is ideal for Original Equipment Manufacturers and end users alike and offers an alternative to our standard solder connector. Connectors can be quickly and easily assembled without screws or a soldering iron – by hand or portable termination tool. (Part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

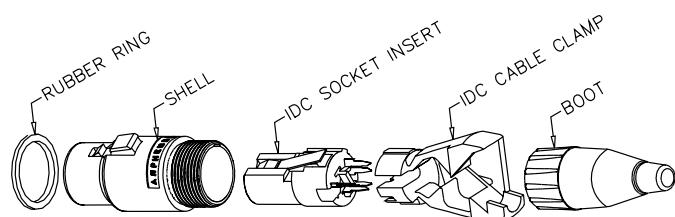
**Options:** Gold plated contacts, Black Finish Shell, Bulk Pack, Coloured Boots / Backshells.

**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"] 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"] 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"] 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"] 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





AC SERIES XLR CABLE CONNECTORS

METAL SHELL TYPE - IDC



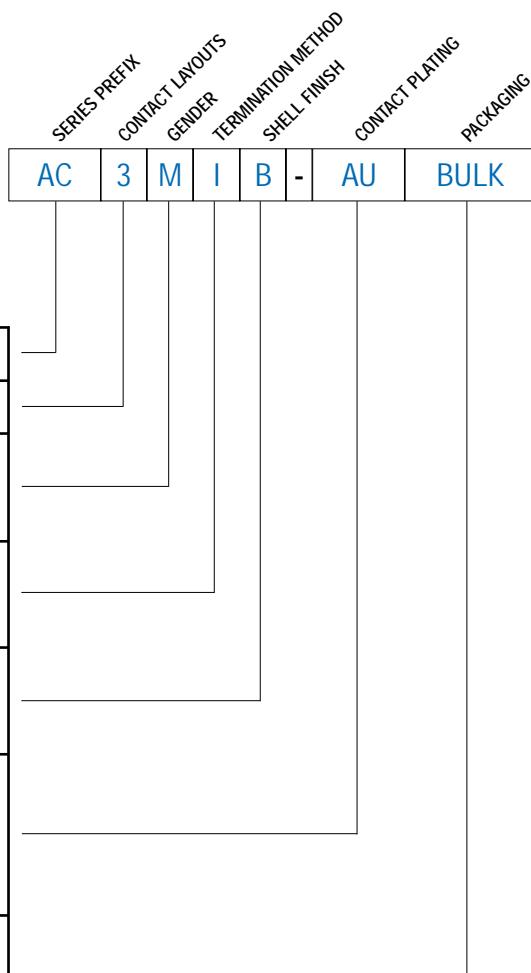
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## PART NUMBER BREAKDOWN

METAL SHELL TYPE - IDC

E. G. AC3MIB-AU BULK  
AC (Series Prefix), 3 contacts, Male, IDC Contacts, Black Polyester Finish,  
- AU (Gold Plated Contacts), Bulk Packaged.

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



AC SERIES XLR CABLE CONNECTORS

THERMOPLASTIC SHELL TYPE - IDC



# Amphenol



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	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	

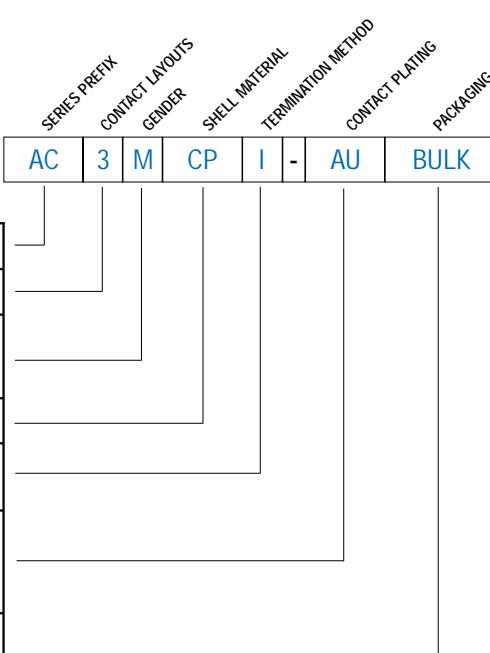
**Note:** Amphenol can not guarantee the termination performance unless the recommended cable dimensions listed on page 14 are followed.

## PART NUMBER BREAKDOWN

### IDC THERMOPLASTIC SHELL TYPE

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

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



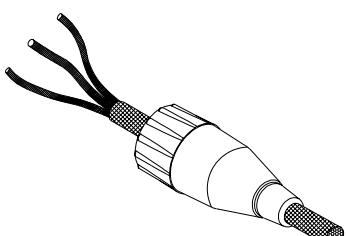
AC SERIES XLR CABLE CONNECTORS

IDC ASSEMBLY INSTRUCTIONS

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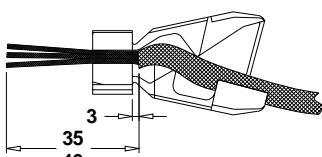


1



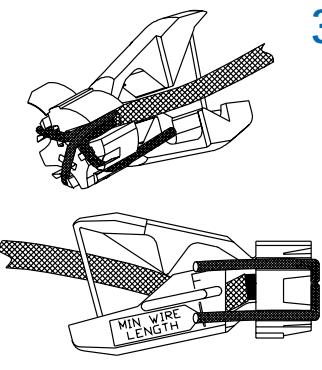
Push the cable through the boot assembly and strip the cable back 35 to 40 mm. Twist the shield wire.

2

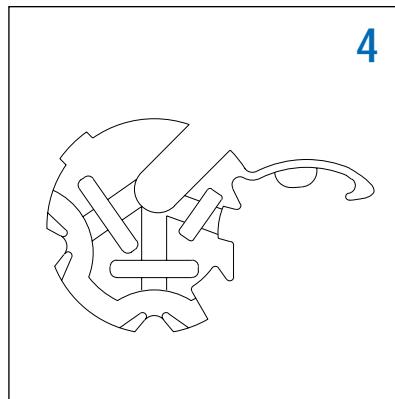


Fit the cable into the 'Jaws' cable clamp ensuring that the cable is pushed up to the neck of the clamp within 3mm.

3

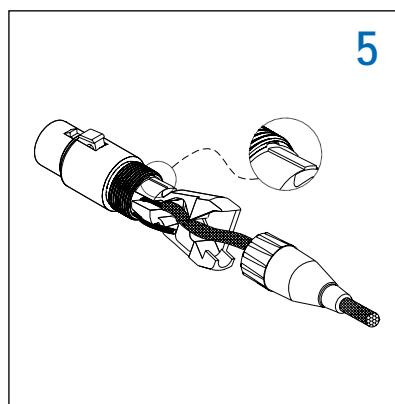


Pull back the conductors into their individual wire guidetracks. Note: Two spring fingers in the clamp will hold the conductors in position during subsequent operations. The ends of the two insulated wires must be on or past the minimum wire length mark.



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

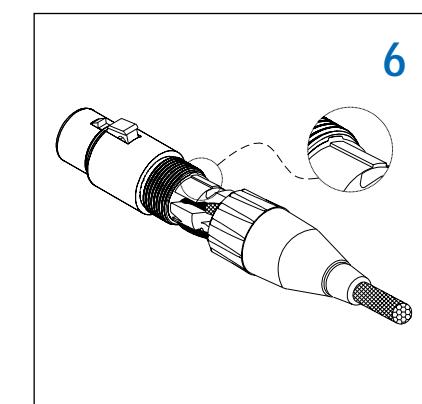
4



5

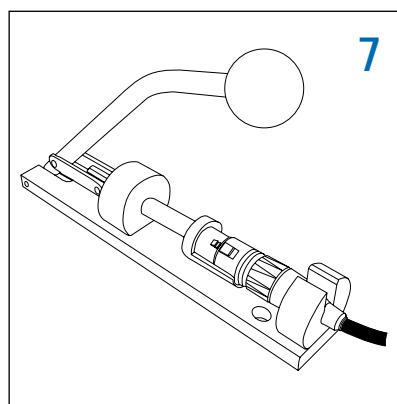
Trim back the shield wire, so there are no wires coming out of the flap and fit the 'Jaws' cable clamp into the shell assembly, ensuring the keyways are aligned.

## 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.

6



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

7

## 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)					
	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				
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	$\leq 3m\Omega$				
	Insulation Resistance	$\geq 1G\Omega$				
CLIMATIC CHARACTERISTICS	Protection Class	IP40				
	Operating Temperature	-25°C to +75°C (-13°F to -167°F)				
MECHANICAL CHARACTERISTICS	Insertion and Withdrawal force	$\geq 10N - \leq 30N$				
	Weight - Metal <sup>2)</sup>	36g (0.080lb)	37g (0.081lb)	38g (0.083lb)	38g (0.083lb)	38g (0.083lb)
	Weight - Thermoplastic <sup>2)</sup>	18g (0.039lb)	19g (0.041lb)	20g (0.044lb)	20g (0.044lb)	20g (0.044lb)
	Typical Cable retention force	22Kg to 44Kg (50lb to 100lb) - Dependant on cable material and diameter.				
	Cable O.D. range - JAWS clamp	Max. Cable O.D. 5.85mm (0.23")				
	IDC	3mm to 6.5mm (0.118" to 0.255")				
	Standard solder	6.5mm to 8mm (0.255" to 0.314")				
	Large Solder	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.





AC SERIES XLR CABLE CONNECTORS

## STANDARD DATA

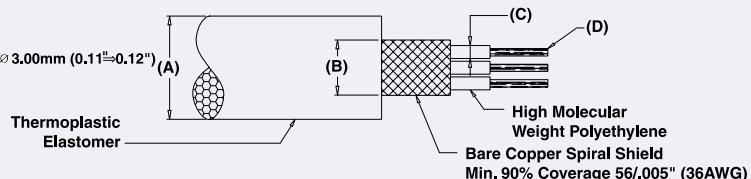


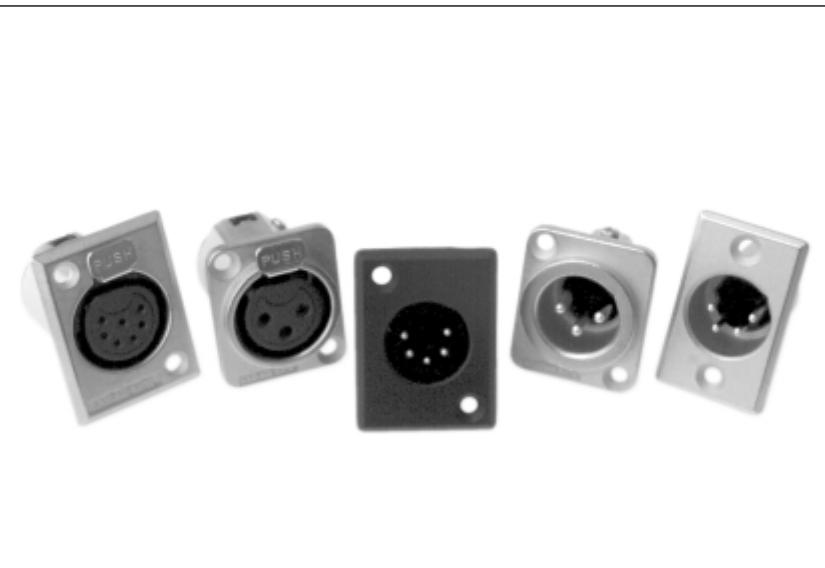
# Amphenol

## 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)
IDC RECOMMENDED CABLE DIMENSIONS	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

A - Cable O.D.: Max. Ø 5.85mm (0.23").  
 B - Bare Copper Spiral Shield OD Ø 2.75 ⇒ Ø 3.00mm (0.11" ⇒ 0.12")  
 C - OD Ø 1.30 ⇒ Ø 1.50mm (0.05" ⇒ 0.06")  
 D - 16/.005" (24 AWG stranded wire)





## AC "Z" SERIES XLR METAL CHASSIS MOUNT CONNECTORS



The metal chassis mount "Z" series connectors are designed for the audio user where durability, reliability and strength across a wide range of applications are important. All AC products are manufactured to the highest quality standards and will withstand the harshest environments. This range complies with IEC268-12 and AES 14-1992 standards. CSA File Number 68598

### Features

- The "D" size housing can be either front or rear mounted using the same panel cutout.
- The "P" size housing is the original wide flange front mounting XLR connector. "PN" is the original narrow flange front mounting male connector.
- A leading first mate last break socket contact is standard on all female connectors (Pin 1).
- Solder cup or Vertical PCB versions.
- Connectors are fitted with a grounding system for RFI shielding applications.
- Available in 3, 4, 5, 6A and 7 contact arrangements.
- Compatible with all other XLR brands.

### Options

- Solder Bucket termination
- Vertical PCB contacts
- Zinc Diecast Shell - Satin Nickel Finish
- Zinc Diecast Shell - Black Polyester Finish
- Gold, Silver or Tin Plated Contacts
- Bulk Packaging
- Single Bag packs
- Precision machined contacts
- Cost effective stamped contacts on 3 pole
- Latchless versions (Non-Latching)  
(Female only)

**Note:** A ground tag is standard on all AC "Z" series connectors. Although the ground tag is intended for RFI shielding applications, Amphenol cannot guarantee its effectiveness in all cases.

The non-conductive Black polyester finish insulates the ground tag from the shell and should not be used in applications requiring ground contact to the shell.

### Ordering Codes

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

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

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


**Features:**

- Zinc Diecast Shell.
- D size housing can be front or rear mounted using the same panel cutout.
- Solder Bucket connections.
- Vertical PCB mounting (not available in 4 contact female).
- Precision machined or Stamped contacts (3 pin only).
- Leading first mate last break socket contact.
- Positive latch lock system.

**Options:** Stamped contacts (3 contact only), Gold plated contacts, Vertical PCB contacts, Black finish, Non-Latching(Female only), Bulk Pack.

**Part Number Breakdown:** Page 24

**Specifications:** Page 25

**PCB Footprints:** Page 26

**Panel Cutouts:** Page 26

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole male, D Flange, Machined contacts, Nickel Finish	Standard	AC3MMDZ	
			Gold Plated Contacts	AC3MMDZ-AU	
			Vertical PCB	AC3MMDZV	
			Bulk Pack	AC3MMDZ BULK	
		XLR 3 pole male, D Flange, Machined contacts, Black Finish	Standard	AC3MMDZB	
			Gold Plated Contacts	AC3MMDZB-AU	
			Vertical PCB	AC3MMDZVB	
			Bulk Pack	AC3MMDZB BULK	
		XLR 3 pole male, D Flange, Stamped contacts, Nickel Finish	Standard	AC3MDZ	
			Gold Plated Contacts	AC3MDZ-AU	
			Vertical PCB	AC3MDZV	
			Bulk Pack	AC3MDZ BULK	
		XLR 3 pole male, D Flange, Stamped contacts, Black Finish	Standard	AC3MDZB	
			Gold Plated Contacts	AC3MDZB-AU	
			Vertical PCB	AC3MDZVB	
			Bulk Pack	AC3MDZB BULK	
		XLR 3 pole female, D Flange, Stamped contacts, Nickel Finish	Standard	AC3FDZ	
			Gold Plated Contacts	AC3FDZ-AU	
			Vertical PCB	AC3FDZV	
			Bulk Pack	AC3FDZ BULK	
		XLR 3 pole female, D Flange, Stamped contacts, Black Finish	Standard	AC3FDZB	
			Gold Plated Contacts	AC3FDZB-AU	
			Vertical PCB	AC3FDZVB	
			Bulk Pack	AC3FDZB BULK	

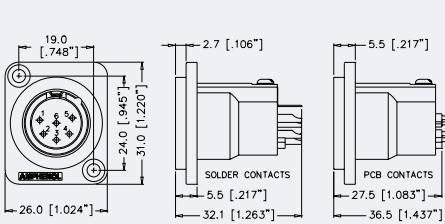
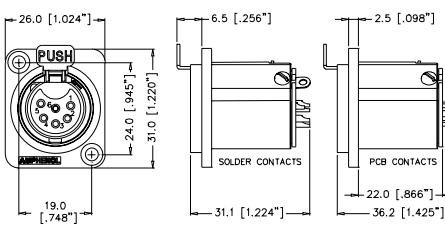
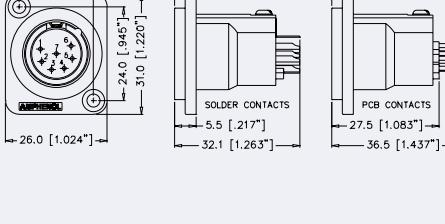
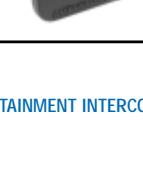
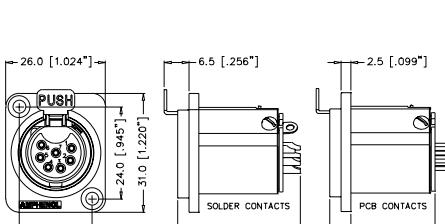
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 4 pole male, D Flange, Machined contacts, Nickel Finish	Standard	AC4MDZ	
			Gold Plated Contacts	AC4MDZ-AU	
			Vertical PCB	AC4MDZV	
			Bulk Pack	AC4MDZ BULK	
		XLR 4 pole female, D Flange, Stamped contacts, Nickel Finish	Standard	AC4FDZ	
			Gold Plated Contacts	AC4FDZ-AU	
			Vertical PCB	AC4FDZV	
			Bulk Pack	AC4FDZ BULK	
		XLR 5 pole male, D Flange, Machined contacts, Nickel Finish	Standard	AC5MDZ	
			Gold Plated Contacts	AC5MDZ-AU	
			Vertical PCB	AC5MDZV	
			Bulk Pack	AC5MDZ BULK	
		XLR 5 pole female, D Flange, Machined contacts, Nickel Finish	Standard	AC5FDZ	
			Gold Plated Contacts	AC5FDZ-AU	
			Vertical PCB	AC5FDZV	
			Bulk Pack	AC5FDZ BULK	



# Amphenol

AC SERIES CHASSIS CONNECTORS

## METAL D TYPE FLANGE

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 6A pole male, D Flange, Machined contacts, Nickel Finish	Standard	AC6AMDZ	
			Gold Plated Contacts	AC6AMDZ-AU	
			Vertical PCB	AC6AMDZV	
			Bulk Pack	AC6AMDZ BULK	
		XLR 6A pole female, D Flange, Machined contacts, Nickel Finish	Standard	AC6AFDZ	
			Gold Plated Contacts	AC6AFDZ-AU	
			Vertical PCB	AC6AFDZV	
			Bulk Pack	AC6AFDZ BULK	
		XLR 7 pole male, D Flange, Gold Plated Machined contacts, Nickel Finish	Standard	AC7MDZ	
			Vertical PCB	AC7MDZV	
			Bulk Pack	AC7MDZ BULK	
			Standard	AC7FDZ	
		XLR 7 pole female, D Flange, Gold Plated Machined contacts, Nickel Finish	Vertical PCB	AC7FDZV	
			Bulk Pack	AC7FDZ BULK	
			Standard	AC7FDZB	
			Vertical PCB	AC7FDZVB	
			Bulk Pack	AC7FDZB BULK	


**Features:**

- Zinc Diecast shell.
- The P size housing is the original wide flange front mounting XLR connector. PN is the original narrow, front mounting male connector.
- Solder Bucket connections.
- Vertical PCB mounting.
- Precision Machined or Stamped contacts (3 pin only).
- Leading first mate last break socket contact.
- Positive latch lock system.

**Options:** Stamped contacts (3 contact only), Gold plated contacts, Vertical PCB contacts, Black Finish, Non-Latching (Female only), Bulk Pack.



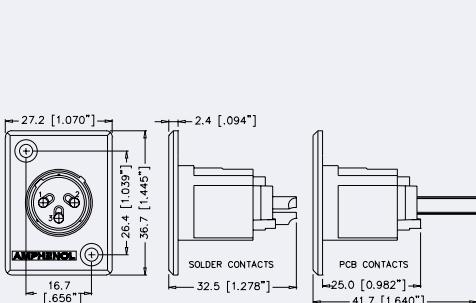
Part Number Breakdown: Page 24

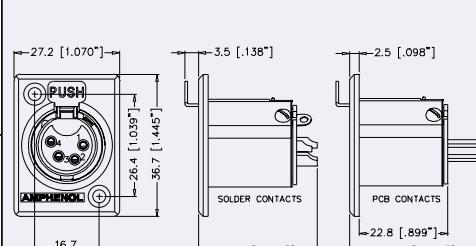
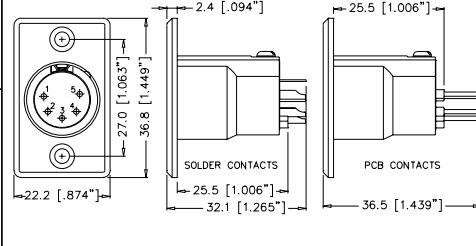
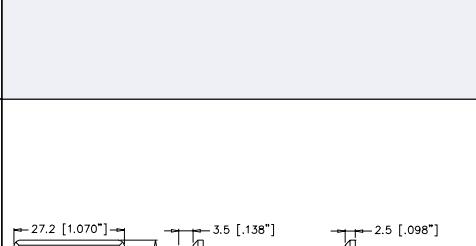
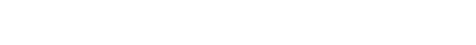
Specifications: Page 25

PCB Footprints: Page 26

Panel Cutouts: Page 26

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			XLR 3 pole male, Narrow flange, Machined contacts, Nickel Finish	Standard	AC3MMPNZ
				Gold Plated Contacts	AC3MMPNZ-AU
				Vertical PCB	AC3MMPNZV
				Bulk Pack	AC3MMPNZ BULK
			XLR 3 pole male, Narrow flange, Stamped contacts, Nickel Finish	Standard	AC3MPNZB
				Gold Plated Contacts	AC3MPNZB-AU
				Vertical PCB	AC3MPNZVB
				Bulk Pack	AC3MPNZB BULK
			XLR 3 pole male, Wide flange, Machined contacts, Nickel Finish	Standard	AC3MMP
				Gold Plated Contacts	AC3MMP-AU
				Vertical PCB	AC3MMPV
				Bulk Pack	AC3MMP BULK
			XLR 3 pole male, Wide flange, Machined contacts, Black Finish	Standard	AC3MMPB
				Gold Plated Contacts	AC3MMPB-AU
				Vertical PCB	AC3MMPVB
				Bulk Pack	AC3MMPB BULK

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole male, Wide flange, Stamped contacts, Nickel Finish	Standard	AC3MP	
			Gold Plated Contacts	AC3MP-AU	
			Vertical PCB	AC3MPV	
			Bulk Pack	AC3MP BULK	
		XLR 3 pole female, Wide flange, Stamped contacts, Nickel Finish	Standard	AC3FPZ	
			Gold Plated Contacts	AC3FPZ-AU	
			Vertical PCB	AC3FPZV	
			Bulk Pack	AC3FPZ BULK	
		XLR 4 pole male, Narrow flange, Machined contacts, Nickel Finish	Standard	AC4MPNZ	
			Gold Plated Contacts	AC4MPNZ-AU	
			Vertical PCB	AC4MPNZV	
			Bulk Pack	AC4MPNZ BULK	
		XLR 4 pole male, Wide flange, Machined contacts, Nickel Finish	Standard	AC4MP	
			Gold Plated Contacts	AC4MP-AU	
			Vertical PCB	AC4MPV	
			Bulk Pack	AC4MP BULK	
		XLR 4 pole male, Wide flange, Machined contacts, Black Finish	Standard	AC4MPB	
			Gold Plated Contacts	AC4MPB-AU	
			Vertical PCB	AC4MPVB	
			Bulk Pack	AC4MPB BULK	

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	 The drawing shows two views of the connector. The top view is a circular cross-section with labels: 'PUSH' at the top, 'AMPHENOL' at the bottom, and '+' and '-' symbols indicating polarity. Dimensions include 27.2 [1.070"], 26.4 [1.039"], 36.7 [1.445"], 3.5 [.138"], 2.5 [.098"], 16.7 [.656"], and 30.6 [1.204"]. The bottom view is a side profile showing 'SOLDER CONTACTS' and 'PCB CONTACTS' with dimensions 22.8 [.899"] and 34.0 [1.340"].	XLR 4 pole female, Wide flange, Stamped contacts, Nickel Finish	Standard	AC4FPZ	
			Gold Plated Contacts	AC4FPZ- AU	
			Vertical PCB	AC4FPZV	
			Bulk Pack	AC4FPZ BULK	
	 The drawing shows two views of the connector. The top view is a circular cross-section with labels: 'PUSH' at the top, 'AMPHENOL' at the bottom, and '+' and '-' symbols. Dimensions include 27.0 [1.065"], 36.8 [1.449"], 2.4 [.094"], 25.5 [1.006"], 22.2 [.874"], 32.1 [1.265"], and 36.5 [1.439"]. The bottom view is a side profile showing 'SOLDER CONTACTS' and 'PCB CONTACTS' with dimensions 25.5 [1.006"] and 36.5 [1.439"].	XLR 5 pole male, Narrow flange, Stamped contacts, Nickel Finish	Standard	AC5MPNZ	
			Gold Plated Contacts	AC5MPNZ- AU	
			Vertical PCB	AC5MPNZV	
			Bulk Pack	AC5MPNZ BULK	
	 The drawing shows two views of the connector. The top view is a circular cross-section with labels: 'PUSH' at the top, 'AMPHENOL' at the bottom, and '+' and '-' symbols. Dimensions include 27.2 [1.070"], 26.4 [1.039"], 36.7 [1.445"], 2.4 [.094"], 25.0 [0.982"], 16.7 [.656"], and 31.5 [1.238"]. The bottom view is a side profile showing 'SOLDER CONTACTS' and 'PCB CONTACTS' with dimensions 31.5 [1.238"] and 36.0 [1.416"].	XLR 5 pole male, Wide flange, Stamped contacts, Nickel Finish	Standard	AC5MP	
			Gold Plated Contacts	AC5MP- AU	
			Vertical PCB	AC5MPV	
			Bulk Pack	AC5MP BULK	
	 The drawing shows two views of the connector. The top view is a circular cross-section with labels: 'PUSH' at the top, 'AMPHENOL' at the bottom, and '+' and '-' symbols. Dimensions include 27.2 [1.070"], 26.4 [1.039"], 36.7 [1.445"], 3.5 [.138"], 2.5 [.098"], 16.7 [.656"], and 30.6 [1.204"]. The bottom view is a side profile showing 'SOLDER CONTACTS' and 'PCB CONTACTS' with dimensions 2.5 [.098"] and 34.0 [1.340"].	XLR 5 pole female, Wide flange, Stamped contacts, Nickel Finish	Standard	AC5FPZ	
			Gold Plated Contacts	AC5FPZ- AU	
			Vertical PCB	AC5FPZV	
			Bulk Pack	AC5FPZ BULK	

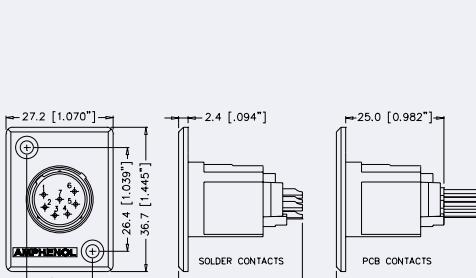
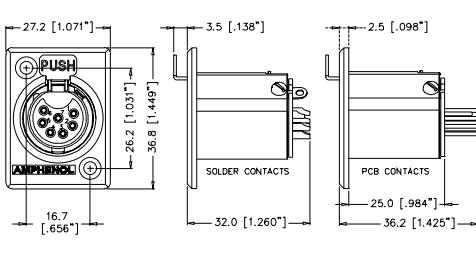


PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 6A pole male, Narrow flange, Machined contacts, Nickel Finish	Standard	AC6AMPNZ	
			Gold Plated Contacts	AC6AMPNZ- AU	
			Vertical PCB	AC6AMPNZV	
			Bulk Pack	AC6AMPNZ BULK	
		XLR 6A pole male, Wide flange, Machined contacts, Nickel Finish	Standard	AC6AMP	
			Gold Plated Contacts	AC6AMP- AU	
			Vertical PCB	AC6AMPV	
			Bulk Pack	AC6AMP BULK	
		XLR 6A pole female, Wide flange, Machined contacts, Nickel Finish	Standard	AC6AFPZ	
			Gold Plated Contacts	AC6AFPZ- AU	
			Vertical PCB	AC6AFPZV	
			Bulk Pack	AC6AFPZ BULK	
		XLR 7 pole male, Narrow flange, Gold Plated, Machined contacts, Nickel Finish	Standard	AC7MPNZ	
			Vertical PCB	AC7MPNZV	
			Bulk Pack	AC7MPNZ BULK	
		XLR 7 pole male, Narrow flange, Gold Plated, Machined contacts, Black Finish	Standard	AC7MPNZB	
			Vertical PCB	AC7MPNZVB	
			Bulk Pack	AC7MPNZB BULK	

# Amphenol

AC SERIES CHASSIS CONNECTORS

METAL P TYPE FLANGE

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	 The drawing shows three views of the connector: front view, side view of solder contacts, and side view of PCB contacts. Dimensions are provided in both mm and inches.  Front View: 27.2 [1.070"], 26.1 [1.031"], 36.7 [1.445"], 16.7 [.656"], 2.4 [.094"], 25.0 [0.982"] Side View (Solder): 31.5 [1.238"], 36.0 [1.416"] Side View (PCB): 3.5 [.138"], 2.5 [.098"], 25.0 [.984"], 36.2 [1.425"]	XLR 7 pole male, Wide flange, Gold Plated Machined contacts, Nickel Finish	Standard	AC7MP	
			Vertical PCB	AC7MPV	
			Bulk Pack	AC7MP BULK	
	 The drawing shows three views of the connector: front view, side view of solder contacts, and side view of PCB contacts. Dimensions are provided in both mm and inches.  Front View: 27.2 [1.071"], 26.2 [1.031"], 36.1 [1.449"], 16.7 [.656"], 3.5 [.138"], 2.5 [.098"] Side View (Solder): 32.0 [1.260"], 36.2 [1.425"] Side View (PCB): 25.0 [.984"], 36.2 [1.425"]	XLR 7 pole female, Wide flange, Gold Plated Machined contacts, Nickel Finish	Standard	AC7FPZ	
			Vertical PCB	AC7FPV	
			Bulk Pack	AC7FPZ BULK	
	 The drawing shows three views of the connector: front view, side view of solder contacts, and side view of PCB contacts. Dimensions are provided in both mm and inches.  Front View: 27.2 [1.071"], 26.2 [1.031"], 36.1 [1.449"], 16.7 [.656"], 3.5 [.138"], 2.5 [.098"] Side View (Solder): 32.0 [1.260"], 36.2 [1.425"] Side View (PCB): 25.0 [.984"], 36.2 [1.425"]	XLR 7 pole female, Wide flange, Gold Plated Machined contacts, Black Finish	Standard	AC7FPZB	
			Vertical PCB	AC7FPZVB	
			Bulk Pack	AC7FPZB BULK	



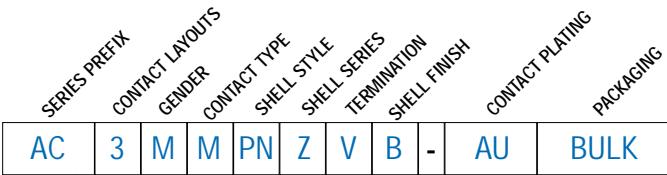
## PART NUMBER BREAKDOWN

### METAL TYPE FLANGE



E. G . AC3MMPNZVB-AU BULK

AC (Series Prefix), 3 contacts, Male, Machined Contacts, PN (Narrow Flange), Z (Metal Chassis Series), Vertical Printed Circuit Board, Black Polyester Finish, - AU (Gold Plated Contacts), Bulk 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
	M	=	Male Pin Contacts
MACHINED CONTACTS	Blank	=	Stamped Contacts
	M	=	Machined Contacts (Applicable 3 male pin contacts only)
	NOTE: 4 - 7 contact connectors have machined contacts as standard. They are not available in stamped contacts.		
SHELL STYLE	D	=	Small Flange(front or rear mounting)
	P	=	Large Shell with wide flange
	PN	=	Large Shell with Narrow Flange (male only)
SHELL SERIES	Blank	=	Male P Shell Style only
	Z	=	Metal Chassis Series
TERMINATION	Blank	=	Solder Buckets
	V	=	Vertical Printed Circuit Board
SHELL FINISH	Blank	=	Nickel Plated Finish
	B	=	Black Polyester Finish
CONTACT PLATING	Blank	=	Standard Plating ( Silver or Tin - Refer to Standard Data.)
	NOTE: 7 Contact is gold plated as standard.		
	AU	=	Gold Plated
PACKAGING	Blank	=	Individual Bags
	BULK	=	Bulk Packed

Note: Non-Latching Versions (Female) available - Please contact us for part number options.

## STANDARD DATA AC SERIES CHASSIS - METAL "Z"

	VALUE					
GENERAL CHARACTERISTICS	Number of contacts	3	4	5	6A	7
	Contact Arrangement (Front view of pin inserts)					
	Termination	Solder Bucket / Printed Circuit Board (PCB)				
	Max. Wire Gauge - Stranded wire: Solder	14AWG N/A	16AWG N/A	18AWG N/A	18AWG N/A	20AWG N/A
	Flammability rating of plastics	UL94V-0				
ELECTRICAL CHARACTERISTICS	Service Voltage RMS	133V <sup>1)</sup>				
	Test Voltage AC RMS	1400V				
	Current carrying capacity: Solder	15A	10A	7.5A	7.5A	5A
	Printed Circuit Board (PCB)	15A	10A	7.5A	7.5A	5A
	Typical Contact Resistance	$\leq 3\text{m}\Omega$				
CLIMATIC CHARACTERISTICS	Insulation Resistance	$\geq 1000\text{M}\Omega$				
	Protection Class	IP40				
MECHANICAL CHARACTERISTICS	Operating Temperature	-25 °C to +75 °C (-13°F to +167°F)				
	Weight - Metal <sup>2)</sup>	31g (0.068lb)	32g (0.070lb)	33g (0.072lb)	33g (0.072lb)	33g (0.072lb)
	Mechanical Operations	1000 mating cycles				
MATERIALS	Connector Shell	Diecast Zinc Alloy				
	Shell Finish	Satin Nickel or Black Polyester				
	Insulators	UL94V-0 PBT Resin or Modified PPE Resin				
	Male Contact	Phosphor Bronze / Silver or Gold (optional)				
	Stamped Solder and PCB-(Material/Plating)	Brass / Silver or Gold (optional)				
	Machined Solder-(Material/Plating)					
	Female Contact	Phosphor Bronze / Tin or Gold (optional)				
	Stamped Solder and PCB-(Material/Plating)					
	Machined Solder-(Material/Plating)	Brass / Silver or Gold (Optional) - 4 socket is tin plated				

<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

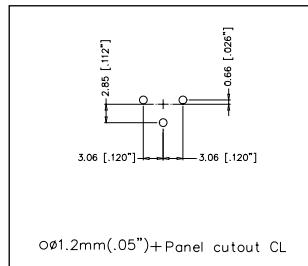
## AC SERIES CHASSIS METAL "Z"

AC SERIES CHASSIS CONNECTORS

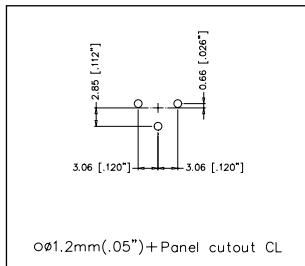
METAL TYPE FLANGE

### PCB FOOTPRINTS STRAIGHT (V)

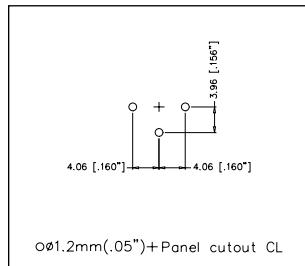
CONNECTOR SIDE OF PCB



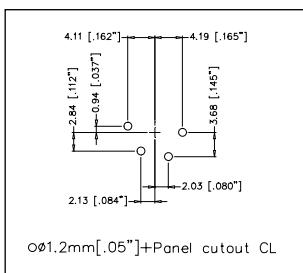
AC3F\*ZV



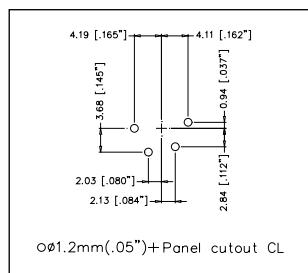
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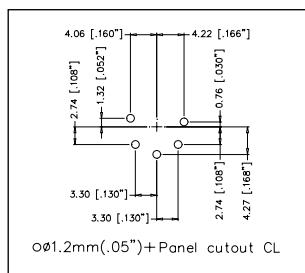
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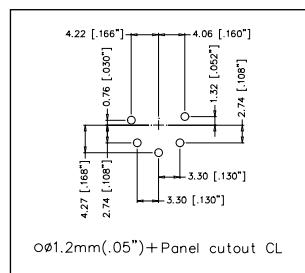
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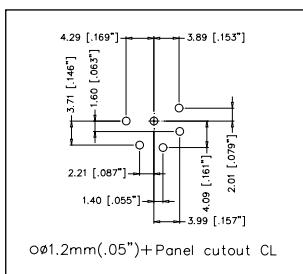
AC4M\*ZV



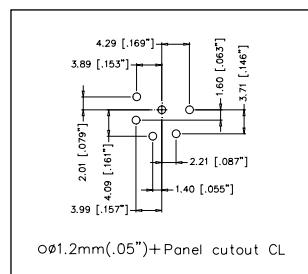
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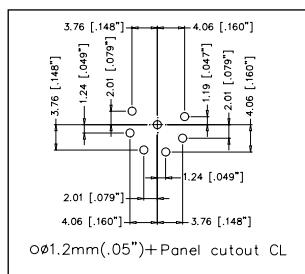
AC5M\*ZV



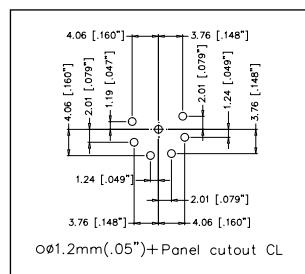
AC6AF\*ZV



AC6AM\*ZV



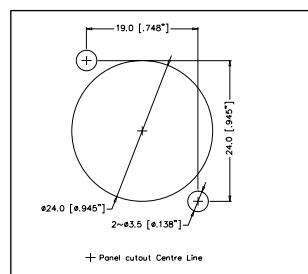
AC7F\*ZV



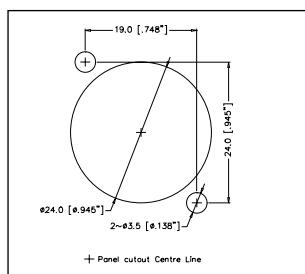
AC7M\*ZV

### PANEL CUTOUT DIMENSIONS

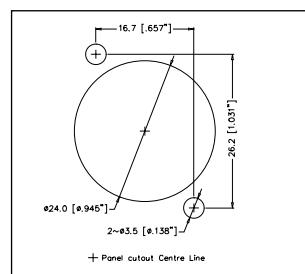
FRONT VIEW



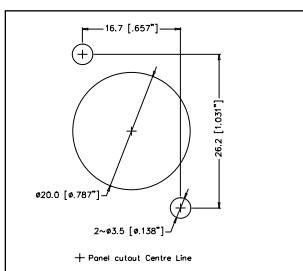
AC\*FDZ



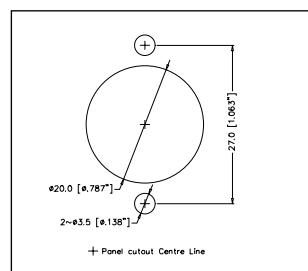
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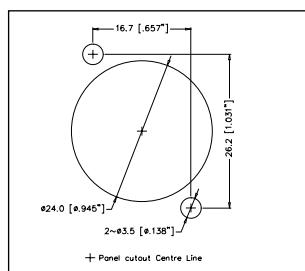
AC\*FPZ



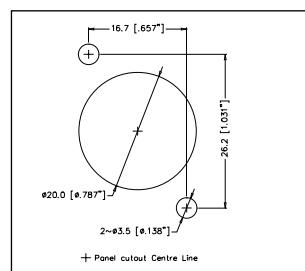
AC\*MP



AC\*MPNZ



AC-PDN-31-XXX



AC-PDN-34-XXX



## AC SERIES - A TYPE THERMOPLASTIC XLR PCB CHASSIS CONNECTORS



The AC series, A type XLR chassis receptacles have been designed and manufactured with the Original Equipment Manufacturers' (OEM) needs in mind. The compact shell design allows a significant space saving over the traditional 'D' type shell. Gold plated contacts improve the performance, ensuring a reliable contact and the unique grounding link options offer flexibility in design.

### Features

- A leading first mate last break socket contact is standard on all female connectors (Pin 1).
- Vertical and Horizontal PCB versions available.
- Latching and Non-latching versions available.
- A range of different grounding options are available including:
  - Mating connector shell to Pin 1
  - Mating connector shell to Chassis
  - Mating connector shell to pin 1 to Chassis
- Available in 3 contact arrangement only.
- Compatible with all other XLR brands.

### Options

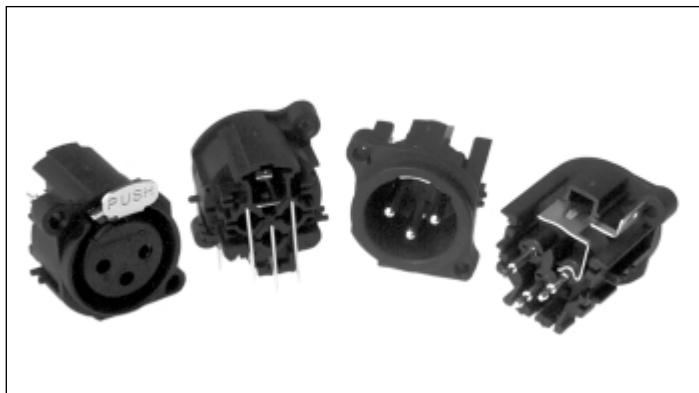
- Vertical PCB contacts
- Horizontal PCB contacts
- Precision Machined Pin contacts
- Cost effective Stamped Socket contacts
- Gold Plated contacts (Standard)
- Silver Plated contacts (Optional)
- Bulk Packaging

### Ordering Codes

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

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

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


**Features:**

- Thermoplastic Shell
- Industry standard PCB footprints.
- Vertical or Horizontal PCB mounting.
- Precision machined pin contacts.
- Gold plated contacts.
- Leading first mate last break socket contact.
- Bulk packed in trays, 100 to a box as standard.
- Positive latch lock system.

**Options:** Silver plated contacts, Vertical or Horizontal PCB, Various grounding methods, Latching or Non-Latching.

**Part Number Breakdown:** Page 32-33   **Specifications:** Page 34

**PCB Footprints:** Page 35

**Panel Cutouts:** Page 36

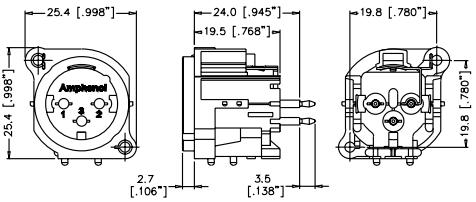
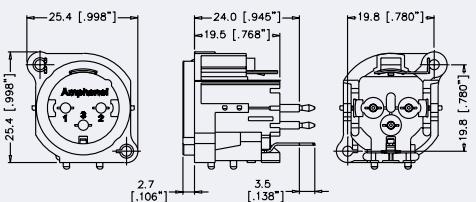
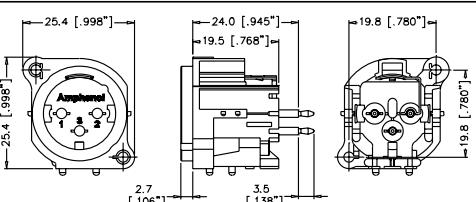
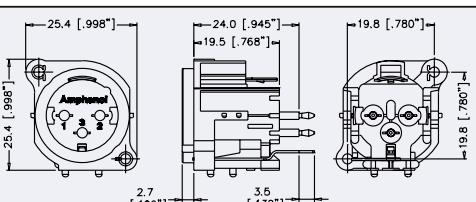
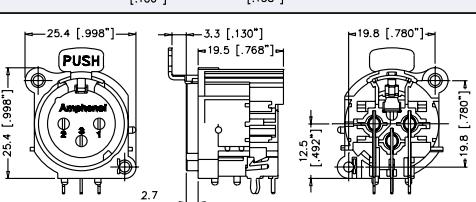
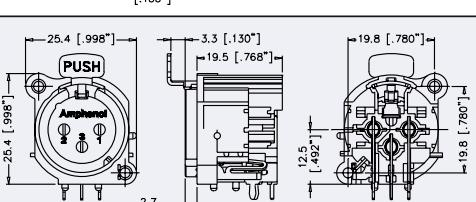
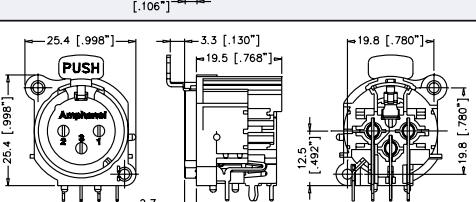
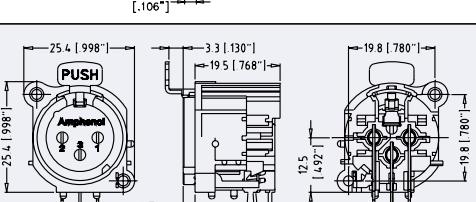
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	GROUND LINK VARIATIONS	PART NUMBER
			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3MAH-AU-B
			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to Mating connector shell	AC3MAH1-AU-B
			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground	AC3MAH2-AU-B
			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Pin 1	AC3MAH3-AU-B
			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis to PCB, Pin 1 sep. Ground	AC3MAH4-AU-B
			XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3MAV-AU-B



# Amphenol

AC SERIES CHASSIS CONNECTORS

THERMOPLASTIC A TYPE FLANGE

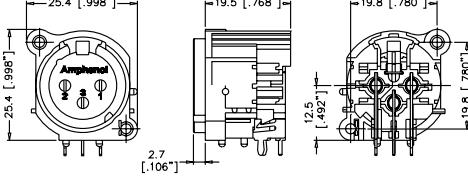
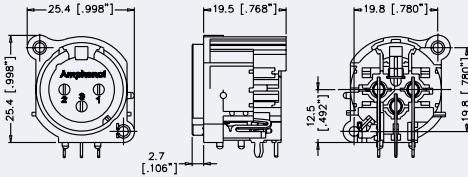
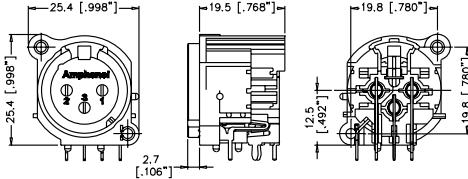
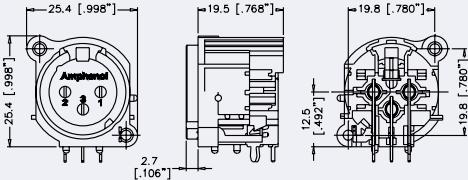
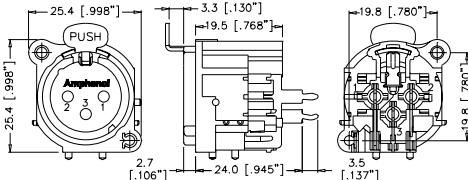
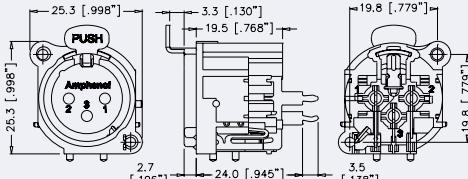
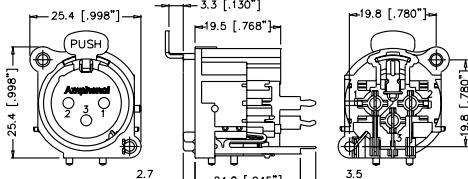
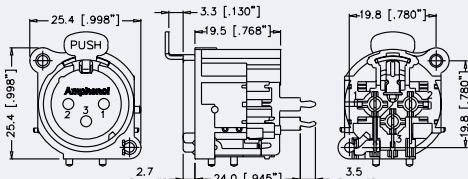
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	GROUND LINK VARIATIONS	PART NUMBER
			XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to Mating connector shell	AC3MAV1-AU-B
			XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground	AC3MAV2-AU-B
			XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Pin 1	AC3MAV3-AU-B
			XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis to PCB, Pin 1 sep. ground	AC3MAV4-AU-B
			XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAH-AU-B
			XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to Mating connector shell	AC3FAH1-AU-B
			XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground	AC3FAH2-AU-B
			XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis	AC3FAH3-AU-B



# Amphenol

AC SERIES CHASSIS CONNECTORS

THERMOPLASTIC A TYPE FLANGE

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	GROUND LINK VARIATIONS	PART NUMBER
		XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack	No Ground Link	<a href="#">AC3FAHL-AU-B</a>	
		XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to mating connector shell	<a href="#">AC3FAHL1-AU-B</a>	
		XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground.	<a href="#">AC3FAHL2-AU-B</a>	
		XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis	<a href="#">AC3FAHL3-AU-B</a>	
		XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack	No Ground Link	<a href="#">AC3FAV-AU-B</a>	
		XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to mating connector shell	<a href="#">AC3FAV1-AU-B</a>	
		XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground.	<a href="#">AC3FAV2-AU-B</a>	
		XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis	<a href="#">AC3FAV3-AU-B</a>	

# Amphenol

## AC SERIES CHASSIS CONNECTORS

## **THERMOPLASTIC A TYPE FLANGE**

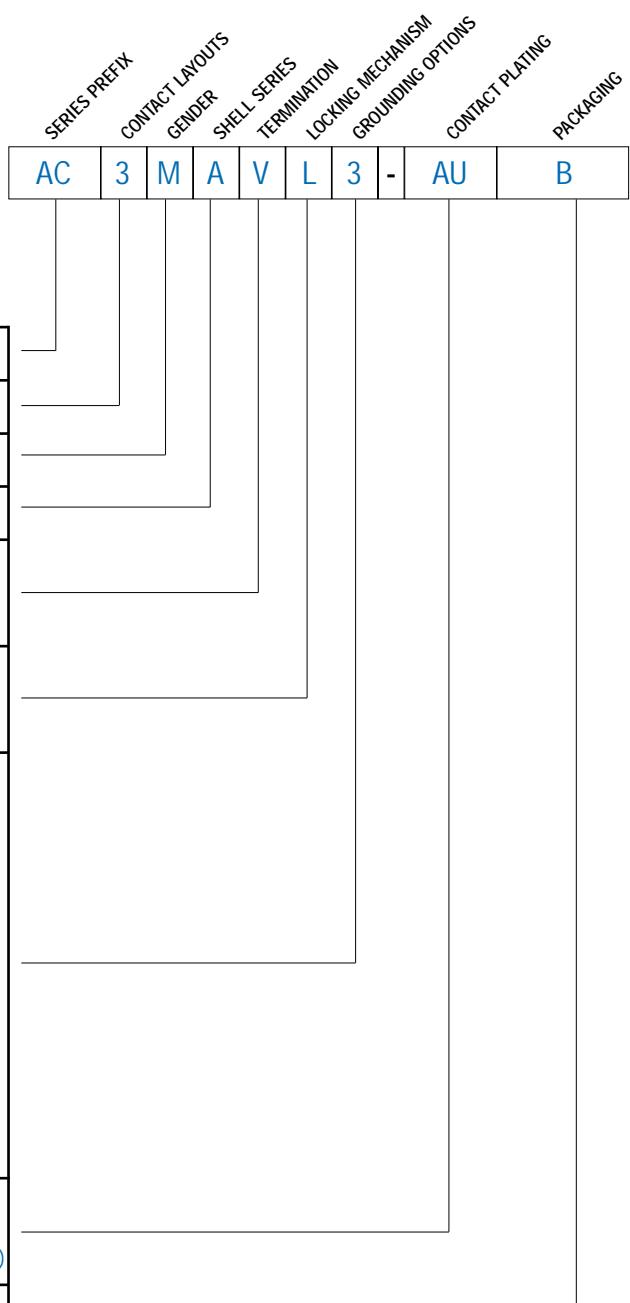


## PART NUMBER BREAKDOWN

AC SERIES A TYPE MALE

E. G. **AC3MAVL3-AU B**  
 AC (series prefix), 3 contacts, Male, A Type, Vertical Printed Circuit Board, Latchless,  
 3 (Mating Shell to Pin 1 Grounding), - AU (Gold Plated Contacts), Bulk Packaged.

SERIES PREFIX	AC	=	Series Prefix
CONTACT LAYOUT	3	=	3 Contacts only
GENDER	M	=	Male Pin Contacts
SHELL SERIES	A	=	A Type
TERMINATION	H	=	Horizontal Printed Circuit Board
	V	=	Vertical Printed Circuit Board
LOCKING MECHANISM	Blank	=	Latching
	L	=	Latchless
GROUNDING LINK OPTIONS	Blank	=	No Ground Link
	1	=	Pin 1 to Chassis to mating connector shell
	2	=	Mating connector shell to Chassis, Pin 1 separate ground.
	3	=	Mating connector to Pin 1
	4	=	Mating connector shell to Chassis to PCB, Pin 1 separate ground.
CONTACT PLATING	AU	=	Gold Plated Contacts
	AG	=	Silver Plated Contacts (Non-Standard)
PACKAGING	B	=	Bulk Packed

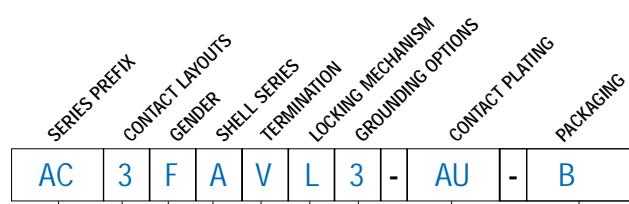


## PART NUMBER BREAKDOWN

AC SERIES A TYPE FEMALE

E. G. **AC3FAVL3-AU B**  
 AC (series prefix), 3 contacts, Female, A Type, Vertical Printed Circuit Board, Latchless,  
 3 (Pin 1 to Chassis Grounding), - AU (Gold Plated Contacts), Bulk Packaged.

SERIES PREFIX	AC	=	Series Prefix
CONTACT LAYOUT	3	=	3 Contacts only
GENDER	F	=	Female Socket Contacts
SHELL SERIES	A	=	A Type
TERMINATION	H	=	Horizontal Printed Circuit Board
	V	=	Vertical Printed Circuit Board
LOCKING MECHANISM	Blank	=	Latching
	L	=	Latchless
GROUNDING LINK OPTIONS	Blank	=	No Ground Link
	1	=	Pin 1 to Chassis to mating connector shell
	2	=	Mating connector shell to Chassis - Pin 1 sep. Ground.
	3	=	Pin 1 to Chassis
	4	=	Mating Shell to Chassis & Pin 1 Seperate Ground / Machined Contacts
	5	=	No Ground Link / Machined Contacts
CONTACT PLATING	AU	=	Gold Plated Contacts
	AG	=	Silver Plated Contacts (Non-Standard)
PACKAGING	B	=	Bulk Packed



## STANDARD DATA AC SERIES A TYPE CHASSIS

		VALUE
GENERAL CHARACTERISTICS	Number of contacts	3
	Contact Arrangements (Front view of pin insert)	
	Termination	Printed Circuit Board (PCB)
	Flammability rating of plastics	UL94V-0
ELECTRICAL CHARACTERISTICS	Service Voltage RMS	133V <sup>1)</sup>
	Test Voltage AC RMS	1500V
	Current carrying capacity	6A
	Typical Contact Resistance	$\leq 5\text{m}\Omega$
	Insulation Resistance (initial)	$\geq 2\text{G}\Omega$
	Insulation Resistance (after damp heat test)	$\geq 2\text{G}\Omega$
CLIMATIC CHARACTERISTICS	Protection Class	IP40
	Operating Temperature	-25 °C to +75 °C (-13°F to +167°F)
MECHANICAL CHARACTERISTICS	Weight <sup>2)</sup>	14g (0.030lb)
	Retention Spring separating force	$\geq 20\text{N}$
	Mounting Hole torque max.	1.5Nm
	Mechanical Operations	1500 mating cycles
	Fastening	Self-Tapping PT screw with thread 2.9 x 1.06 and of Tri-rondular configuration
MATERIALS	Connector Shell	PA6.6 + 25% glass fibre reinforced, ULV94V-0
	Shell Finish	Black
	Insulators	PA6.6 + 25% glass fibre reinforced, ULV94V-0
	Male Contact	
	Material	Brass
	Plating	0.0762μm (3μ") gold over 0.0762μm (30μ") nickel
	Female Contact	
	Material	Bronze
	Plating	0.0762μm (3μ") gold over 0.0762μm (30μ") nickel
	Latch lock and Spring	Spring Steel
	Ground element	Spring Steel

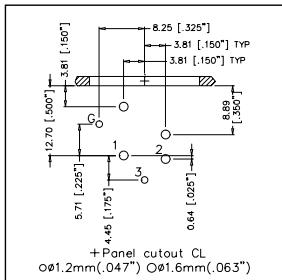
<sup>1)</sup> Not suitable for domestic applications above 50V

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

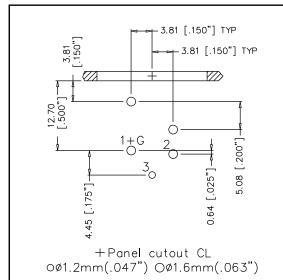
## AC SERIES A TYPE CHASSIS

PCB FOOTPRINTS STRAIGHT (V) - CONNECTOR SIDE OF PCB

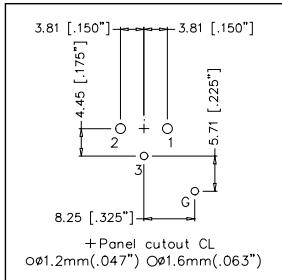
**AC3FAH  
AC3FAH2**



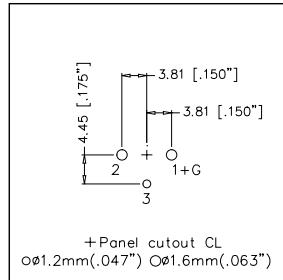
**AC3FAH1  
AC3FAH3**



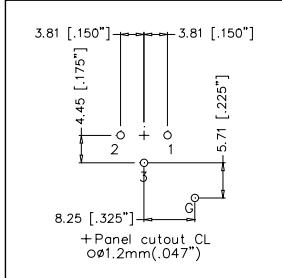
**AC3FAV  
AC3FAV2**



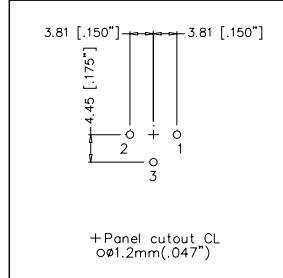
**AC3FAV1  
AC3FAV3**



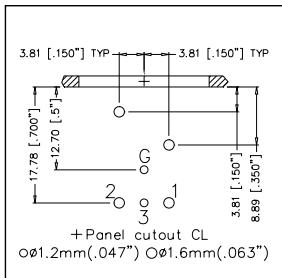
**AC3FAV4**



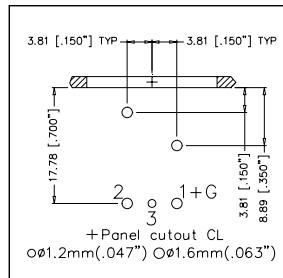
**AC3FAV5**



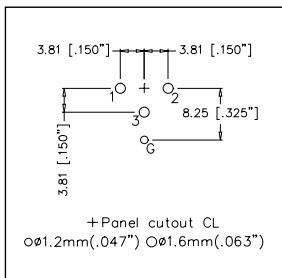
**AC3MAH  
AC3MAH2  
AC3MAH4**



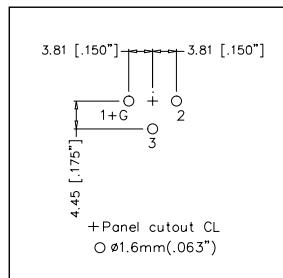
**AC3MAH1  
AC3MAH3**



**AC3MAV  
AC3MAV2  
AC3MAV4**

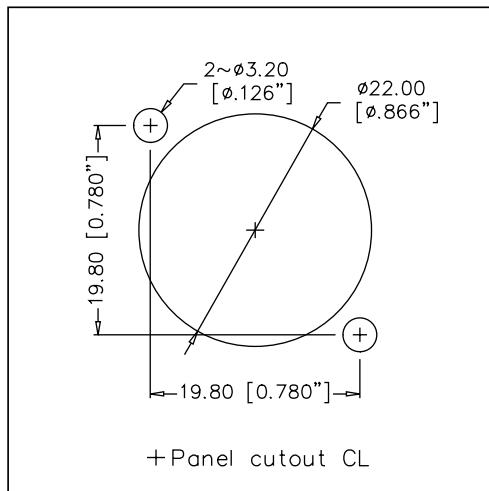


**AC3MAV1  
AC3MAV3**

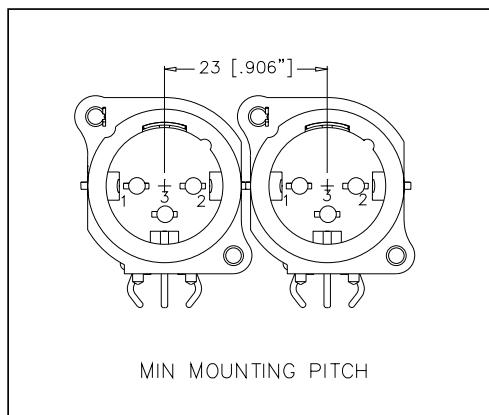


## AC SERIES A TYPE CHASSIS PANEL CUTOUT DIMENSIONS - FRONT VIEW

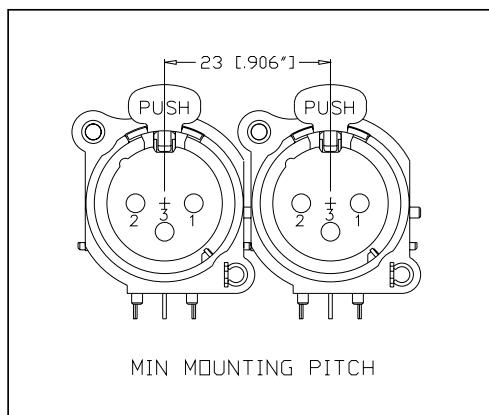
A TYPE



A TYPE MALE  
MOUNTING PITCH



A TYPE FEMALE  
MOUNTING PITCH





## AC SERIES XLR THERMOPLASTIC CHASSIS MOUNT CONNECTORS

This receptacle is manufactured from glass filled UL94V-0 PBT Resin, and provides a lower cost alternative to the 'Z' series metal shell. Available in the small "D" or larger "P" housing or the dual versions featuring two connectors within a single housing. A positive latch lock system secures the mating cable connector. Manufactured to comply with IEC 268-12 and AES 14-1992 standards. CSA File Number 68598

### Features

- Thermoplastic Shell.
- The "D" size housing can be either front or rear mounted using the same panel cutout.
- The "P" size housing is the original front mounting XLR connector.
- Dual versions provide two connectors in the one shell.
- A leading first mate last break socket contact is standard on all female connectors (Pin 1).
- Solder cup or Insulation Displacement Contact (IDC) as well as Vertical or Horizontal PCB versions are available.
- Latching and Non-latching versions available.
- Available in 3 contact arrangements only.
- Compatible with all other XLR brands.

### Options

- Solder Bucket termination
- Insulation Displacement Contacts (IDC)
- Vertical PCB contacts
- Horizontal PCB contacts
- Gold, Silver or Tin Plated Contacts
- Bulk Packaging
- Single Bag packs
- Cost effective stamped contacts
- Latching or Non-latching.

### Ordering Codes

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

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

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



# Amphenol

## AC SERIES CHASSIS CONNECTORS

## **THERMOPLASTIC D TYPE FLANGE**



## Features:

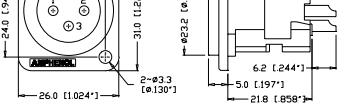
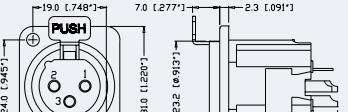
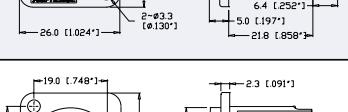
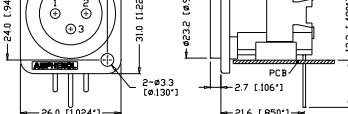
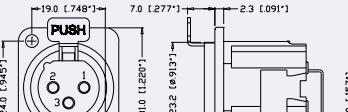
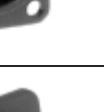
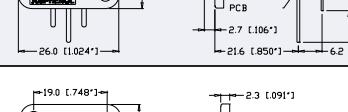
- Thermoplastic shell.
  - D type Flange.
  - Solder Bucket connections.
  - Vertical or Horizontal PCB mounting.
  - Stamped contacts.
  - Leading first mate last break socket contact.
  - Positive latch lock system.
  - Coloured housings available as specials.

**Options:** Solder Buckets, Vertical or Horizontal PCB, Bulk Pack, Latching or Non-latching, Gold Plated Contacts.

Part Number Breakdown: Page 39 | Specifications: Page 48

PCB Footprints: Page 49      Panel Cutouts: Page 49

**NOTE:** Refer to page 59, AC SERIES ACCESSORIES for mounting clips.

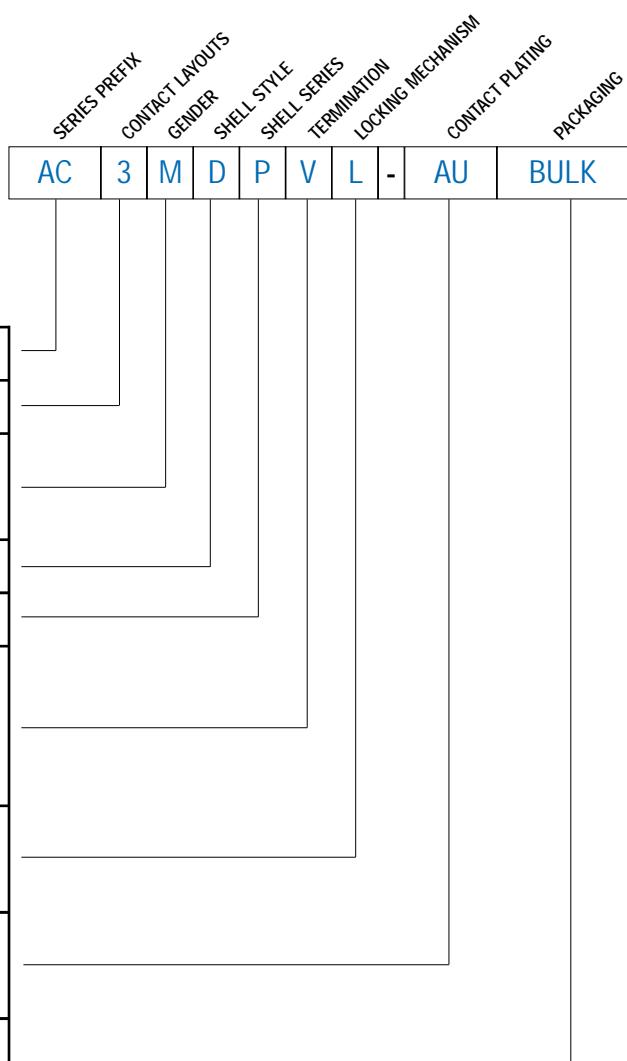
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole male, D Flange, Thermoplastic shell, Solder Buckets	Standard	AC3MDP	
			Bulk Pack	AC3MDP BULK	
			Non-Latching	AC3MDPL	
			Non-Latching Bulk	AC3MDPL BULK	
		XLR 3 pole female, D Flange, Thermoplastic shell, Solder Buckets	Standard	AC3FDP	
			Bulk Pack	AC3FDP BULK	
			Non-Latching	AC3FDPL	
			Non-Latching Bulk	AC3FDPL BULK	
		XLR 3 pole male, D Flange, Thermoplastic shell, Horizontal PCB mount	Standard	AC3MDPH	
			Bulk Pack	AC3MDPH BULK	
			Non-Latching	AC3MDPHL	
			Non-Latching Bulk	AC3MDPHL BULK	
		XLR 3 pole female, D Flange, Thermoplastic shell, Horizontal PCB mount	Standard	AC3FDPH	
			Bulk Pack	AC3FDPH BULK	
			Non-Latching	AC3FDPLH	
			Non-Latching Bulk	AC3FDPLH BULK	
		XLR 3 pole male, D Flange, Thermoplastic shell, Vertical PCB mount	Standard	AC3MDPV	
			Bulk Pack	AC3MDPV BULK	
			Non-Latching	AC3MDPVL	
			Non-Latching Bulk	AC3MDPVL BULK	
		XLR 3 pole female, D Flange, Thermoplastic shell, Vertical PCB mount	Standard	AC3FDPV	
			Bulk Pack	AC3FDPV BULK	
			Non-Latching	AC3FDPVL	
			Non-Latching Bulk	AC3FDPVL BULK	

## PART NUMBER BREAKDOWN

THERMOPLASTIC D TYPE FLANGE

E. G . **AC3MDPVL-AU BULK**  
 AC (Series Prefix),3 contacts, Male, D (Small Shell), P (Thermoplastic Chassis series)  
 Vertical Printed Circuit Board, Latchless - AU (Gold Plated Contacts), Bulk Packaged.

SERIES PREFIX	AC	=	Series Prefix
CONTACT LAYOUT	3	=	3 Contacts only
GENDER	F	=	Female Socket Contacts
	M	=	Male Pin Contacts
SHELL STYLE	D	=	Small Shell
SHELL SERIES	P	=	Thermoplastic Chassis Series
TERMINATION	Blank	=	Solder Buckets
	V	=	Vertical Printed Circuit Board
	H	=	Horizontal Printed Circuit Board
LOCKING MECHANISM	Blank	=	Latching
	L	=	Latchless (Non-Latching)
CONTACT PLATING	Blank	=	Standard Plating ( Silver or Tin - Refer to Standard Data.)
	AU	=	Gold Plated Contacts
PACKAGING	Blank	=	Individual Bags
	BULK	=	Bulk Packed




**Features:**

- Thermoplastic Shell.
- P Type Flange.
- Solder Bucket connections.
- Vertical or Horizontal PCB mounting.
- Stamped contacts.
- Leading first mate last break socket contact.
- Positive latch lock system.
- Coloured housings available as specials.

**Options:** Solder Buckets, Vertical or Horizontal PCB, Bulk Pack, Latching or Non-latching, Gold Plated Contacts.

**Part Number Breakdown:** Page 41    **Specifications:** Page 48  
**PCB Footprints:** Page 49    **Panel Cutouts:** Page 49

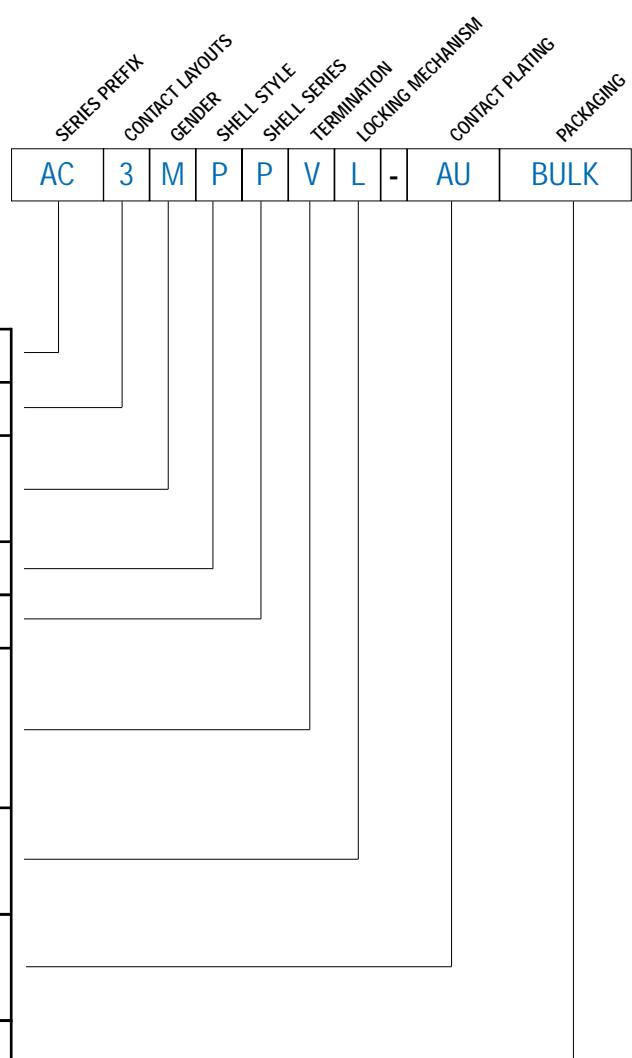
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			XLR 3 pole male, Wide Flange, Thermoplastic shell, Solder Buckets	Standard	AC3MPP
				Bulk Pack	AC3MPP BULK
				Non-Latching	AC3MPPL
				Non-Latching Bulk	AC3MPPL BULK
			XLR 3 pole female, Wide Flange, Thermoplastic shell, Solder Buckets	Standard	AC3FPP
				Bulk Pack	AC3FPP BULK
				Non-Latching	AC3FPPL
				Non-Latching Bulk	AC3FPPL BULK
			XLR 3 pole male, Wide Flange, Thermoplastic shell, Horizontal PCB mount	Standard	AC3MPPH
				Bulk Pack	AC3MPPH BULK
				Non-Latching	AC3MPPHL
				Non-Latching Bulk	AC3MPPHL BULK
			XLR 3 pole female, Wide Flange, Thermoplastic shell, Horizontal PCB mount	Standard	AC3FPPH
				Bulk Pack	AC3FPPH BULK
				Non-Latching	AC3FPPHL
				Non-Latching Bulk	AC3FPPHL BULK
			XLR 3 pole male, Wide Flange, Thermoplastic shell, Vertical PCB mount	Standard	AC3MPPV
				Bulk Pack	AC3MPPV BULK
				Non-Latching	AC3MPPVL
				Non-Latching Bulk	AC3MPPVL BULK
			XLR 3 pole female, Wide Flange, Thermoplastic shell, Vertical PCB mount	Standard	AC3FPPV
				Bulk Pack	AC3FPPV BULK
				Non-Latching	AC3FPPVL
				Non-Latching Bulk	AC3FPPVL BULK

## PART NUMBER BREAKDOWN

### THERMOPLASTIC P TYPE FLANGE

E. G . **AC3MPPVL-AU BULK**  
 AC (Series Prefix),3 contacts, M, P (Large Shell), P (Thermoplastic Chassis series)  
 Vertical Printed Circuit Board, Latchless - AU (Gold Plated Contacts), Bulk Packaged.

SERIES PREFIX	AC	=	Series Prefix
CONTACT LAYOUT	3	=	3 Contacts Only
GENDER	F	=	Female Socket Contacts
	M	=	Male Pin Contacts
SHELL STYLE	P	=	Large Shell with wide flange
SHELL SERIES	P	=	Thermoplastic Chassis Series
TERMINATION	Blank	=	Solder Buckets
	V	=	Vertical Printed Circuit Board
	H	=	Horizontal Printed Circuit Board
LOCKING MECHANISM	Blank	=	Latching
	L	=	Latchless (Non-Latching)
CONTACT PLATING	Blank	=	Standard Plating ( Silver or Tin - Refer to Standard Data.)
	AU	=	Gold Plated Contacts
PACKAGING	Blank	=	Individual Bags
	BULK	=	Bulk Packed





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

**Recommended Cable Specifications:** Page 48

**Features:**

- Thermoplastic Shell.
- Optional "D", "P" or Dual Housing flange sizes.
- Insulation Displacement Contacts (IDC)
- Stamped contacts.
- Leading first mate last break socket contact.
- Positive latch lock system.
- Coloured housings available as specials.

**Options:** Gold plated contacts, Bulk Pack, Latching or Non-latching

**Part Number Breakdown:** Page 44

**Specifications:** Page 48

**Assembly Instructions:** Page 50

**Panel Cutouts:** Page 49

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			XLR 3 pole male, D Flange, IDC contacts, Thermoplastic shell	Standard	AC3MDPI
				Bulk Pack	AC3MDPI BULK
				Non-Latching	AC3MDPIL
				Non-Latching Bulk	AC3MDPIL BULK
			XLR 3 pole female, D Flange, IDC contacts, Thermoplastic shell	Standard	AC3FDPI
				Bulk Pack	AC3FDPI BULK
				Non-Latching	AC3FDPIL
				Non-Latching Bulk	AC3FDPIL BULK
			XLR 3 pole male, Wide Flange, IDC contacts, Thermoplastic shell	Standard	AC3MPPI
				Bulk Pack	AC3MPPI BULK
				Non-Latching	AC3MPPIL
				Non-Latching Bulk	AC3MPPIL BULK
			XLR 3 pole female, Wide Flange, IDC contacts, Thermoplastic shell	Standard	AC3FPPI
				Bulk Pack	AC3FPPI BULK
				Non-Latching	AC3FPPIL
				Non-Latching Bulk	AC3FPPIL BULK

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AC SERIES CHASSIS CONNECTORS

THERMOPLASTIC TYPE - IDC

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole male + 3 pole male, Dual Flange, IDC contacts, Thermoplastic shell	Latching	AC3M3MPPI	
			Non-Latching	AC3M3MPPIL	
		XLR 3 pole female + 3 pole male, Dual Flange, IDC contacts, Thermoplastic shell	Latching	AC3F3MPPI	
			Non-Latching	AC3F3MPPIL	
		XLR 3 pole female + 3 pole female, Dual Flange, IDC contacts, Thermoplastic shell	Latching	AC3F3FPPI	
			Non-Latching	AC3F3FPPIL	
		XLR 3 pole male + 3 pole female, Dual Flange, IDC contacts, Thermoplastic shell	Latching	AC3M3FPPI	
			Non-Latching	AC3M3FPPIL	

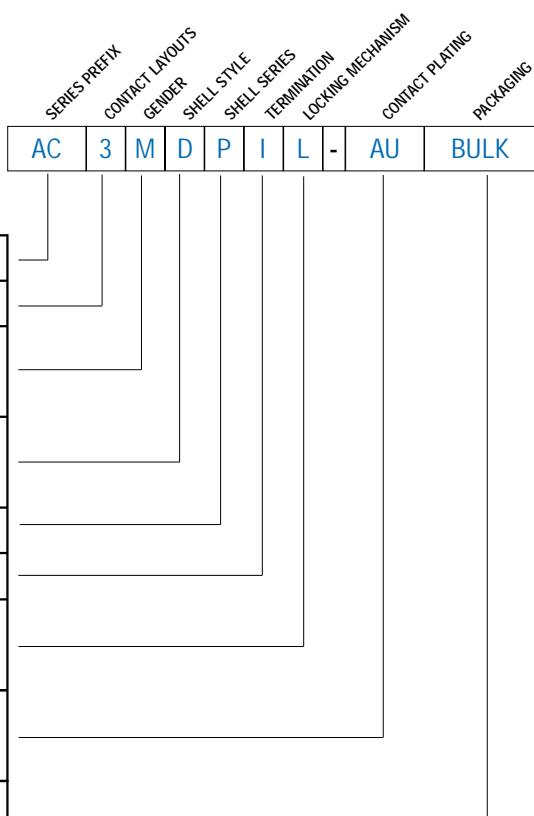


## PART NUMBER BREAKDOWN

### IDC D AND P THERMOPLASTIC CHASSIS TYPE

E. G . AC3MDPIL-AU BULK  
 AC (series prefix), 3 contacts, Male, D Flange, Plastic Shell, IDC, Latchless,  
 - AU (Gold Plated Contacts), Bulk Packaged.

SERIES PREFIX	AC	=	Series Prefix
CONTACT LAYOUT	3	=	3 Contacts only
GENDER	F	=	Female Socket Contacts
	M	=	Male Pin Contacts
SHELL STYLE	D	=	D Flange
	P	=	P Flange
SHELL SERIES	P	=	Thermoplastic Chassis Series
TERMINATION	I	=	IDC Termination
LOCKING MECHANISM	Blank	=	Latching
	L	=	Latchless
CONTACT PLATING	Blank	=	Standard Plating ( Silver or Tin - Refer to Standard Data.)
	AU	=	Gold Plated Contacts
PACKAGING	Blank	=	Individual Bags
	BULK	=	Bulk Packed

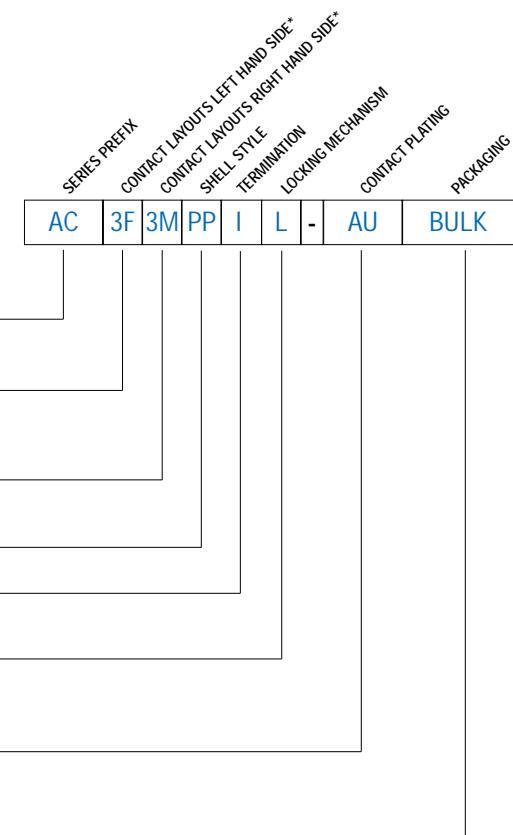


## PART NUMBER BREAKDOWN

### IDC DUAL THERMOPLASTIC CHASSIS TYPE

E. G . AC3F3MPPIL-AU BULK  
 AC (series prefix), 3Female, 3Male, PP (Dual Thermoplastic Chassis series), IDC,  
 Latchless,- AU (Gold Plated Contacts), Bulk Packaged.

SERIES PREFIX	AC	=	Series Prefix
CONTACT LAYOUT LEFT HAND SIDE <sup>3)</sup>	3F	=	3 Female Socket Contacts only
	3M	=	3 Male Pin Contacts only
CONTACT LAYOUT RIGHT HAND SIDE <sup>3)</sup>	3F	=	3 Female Socket Contacts
	3M	=	3 Male Pin Contacts
SHELL STYLE	PP	=	Dual Thermoplastic Chassis Series
TERMINATION	I	=	IDC Termination
LOCKING MECHANISM	Blank	=	Latching
	L	=	Latchless
CONTACT PLATING	Blank	=	Standard Plating ( Silver or Tin - Refer to Standard Data.)
	AU	=	Gold Plated Contacts
PACKAGING	Blank	=	Individual Bags
	BULK	=	Bulk Packed



<sup>3)</sup> Viewed from front of connector.

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## AC SERIES CHASSIS CONNECTORS

## DUAL HOUSING THERMOPLASTIC TYPE



## Features:

- Thermoplastic Shell.
  - Dual Housing.
  - Solder Bucket connections.
  - Vertical or Horizontal PCB mounting.
  - Stamped contacts.
  - Leading first mate last break socket contact.
  - Positive latch lock system.
  - Coloured housings available as specials.

**Options:** Solder Buckets or IDC, Vertical or Horizontal PCB, Bulk Pack, Latching or Non-latching, Gold plated contacts.

Part Number Breakdown: Page 47      Specifications: Page 48

PCB Footprints: Page 49

Panel Cutouts: Page 49

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole male + 3 pole male, Dual Flange, Solder contacts	Latching	AC3M3MPP	
			Non-Latching	AC3M3MPPL	
		XLR 3 pole male + 3 pole male, Dual Flange, Horizontal PCB mount	Latching	AC3M3MPPH	
			Non-Latching	AC3M3MPPHL	
		XLR 3 pole male + 3 pole male, Dual Flange, Vertical PCB mount	Latching	AC3M3MPPV	
			Non-Latching	AC3M3MPPVL	
		XLR 3 pole female + 3 pole female, Dual Flange, Solder contacts	Latching	AC3F3FPP	
			Non-Latching	AC3F3FPPL	
		XLR 3 pole female + 3 pole female, Dual Flange, Horizontal PCB mount	Latching	AC3F3FPPH	
			Non-Latching	AC3F3FPPL	



# Amphenol

AC SERIES CHASSIS CONNECTORS

DUAL HOUSING THERMOPLASTIC TYPE

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			XLR 3 pole female + 3 pole female, Dual Flange, Vertical PCB mount	Latching	AC3F3FPPV
				Non-Latching	AC3F3FPPVL
			XLR 3 pole male + 3 pole female, Dual Flange, Solder contacts	Standard	AC3M3FPP
				Non-Latching	AC3M3FPPL
			XLR 3 pole male + 3 pole female, Dual Flange, Horizontal PCB mount	Standard	AC3M3FPPH
				Non-Latching	AC3M3FPPHL
			XLR 3 pole male + 3 pole female, Dual Flange, Vertical PCB mount	Standard	AC3M3FPPV
				Non-Latching	AC3M3FPPVL
			XLR 3 pole female + 3 pole male, Dual Flange, Solder contacts	Standard	AC3F3MPP
				Non-Latching	AC3F3MPPL
			XLR 3 pole female + 3 pole male, Dual Flange, Horizontal PCB mount	Standard	AC3F3MPPH
				Non-Latching	AC3F3MPPHL
			XLR 3 pole female + 3 pole male, Dual Flange, Vertical PCB Mount	Standard	AC3F3MPPV
				Non-Latching	AC3F3MPPVL

## PART NUMBER BREAKDOWN

DUAL THERMOPLASTIC TYPE

SERIES PREFIX	AC	CONTACT LAYOUT (LHS)	3M	CONTACT LAYOUT (RHS)	3M	SHELL STYLE	PP	LOCKING MECHANISM	L	CONTACT PLATING	AU	PACKAGING	BULK
E. G . AC3M3MPPL-AU BULK													

E. G . AC3M3MPPL-AU BULK  
 AC (Series Prefix), 3M (Male(LHS), 3M (Male(RHS), PP Dual Thermoplastic Chassis Series,  
 Latchless, - AU (Gold Plated Contacts), Bulk Packaged.

SERIES PREFIX	AC	=	Series Prefix
CONTACT LAYOUT LEFT HAND SIDE <sup>3)</sup>	3F	=	3 Female Socket Contacts only
	3M	=	3 Male Pin Contacts only
CONTACT LAYOUT RIGHT HAND SIDE <sup>3)</sup>	3F	=	3 Female Socket Contacts
	3M	=	3 Male Pin Contacts
SHELL STYLE	PP	=	Dual Thermoplastic Chassis Series
LOCKING MECHANISM	Blank	=	Latching
	L	=	Latchless
CONTACT PLATING	Blank	=	Standard Plating ( Silver or Tin - Refer to Standard Data.)
	AU	=	Gold Plated Contacts
PACKAGING	Blank	=	Individual Bags
	BULK	=	Bulk Packed

<sup>3)</sup> Viewed from front of connector.



## STANDARD DATA AC CHASSIS - THERMOPLASTIC

AC SERIES CHASSIS CONNECTORS

### STANDARD DATA

	VALUE
GENERAL CHARACTERISTICS	Number of contacts
	AC Series Contact Arrangements (Front view of pin inserts)
	Termination
	Wire Gauge - Stranded wire:
	IDC
	Solder
ELECTRICAL CHARACTERISTICS	Printed Circuit Board (PCB)
	Flammability
	Service Voltage RMS
	Test Voltage AC RMS
	Current carrying capacity:
	IDC
CLIMATIC CHARACTERISTICS	Solder
	Printed Circuit Board (PCB)
	Typical Contact Resistance
	Insulation Resistance
	Protection Class
	Operating Temperature
MECHANICAL CHARACTERISTICS	Weight <sup>2)</sup>
	Mechanical Operations
MATERIALS	Connector Shell - Thermoplastic
	Shell Finish
	Insulators
	Male Contact
	Stamped IDC-Material/Plating
	Stamped Solder and PCB-Material/Plating
IDC RECOMMENDED CABLE DIMENSIONS	Phosphor Bronze / Silver or Gold (optional)
	Female Contact
	Stamped IDC-Material/Plating
	Stamped Solder and PCB-Material/Plating
	Phosphor Bronze / Tin or Gold (optional)
	Phosphor Bronze / Tin or Gold (optional)

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

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

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## AC SERIES RECEPTACLES THERMOPLASTIC

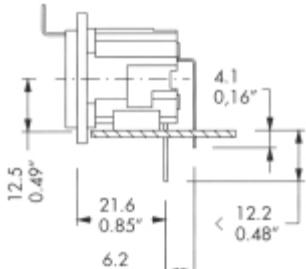
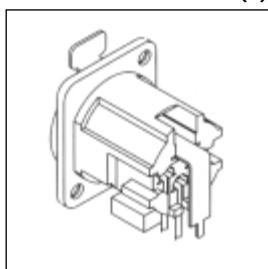
AC SERIES CHASSIS CONNECTORS

THERMOPLASTIC SHELL TYPE

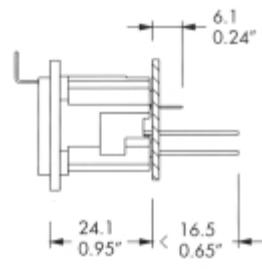
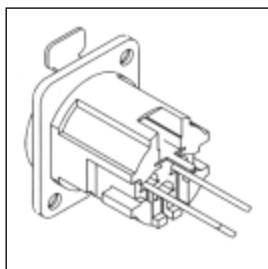
### MOUNTING INFORMATION

#### 'D' SERIES

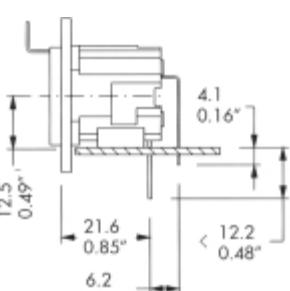
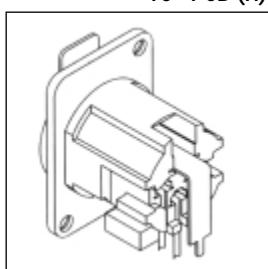
90° PCB (H)



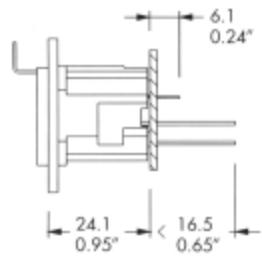
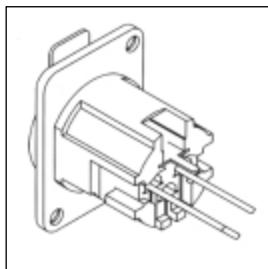
#### 'D' SERIES STRAIGHT PCB (V)



#### 'P' SERIES 90° PCB (H)



#### 'P' SERIES STRAIGHT PCB (V)

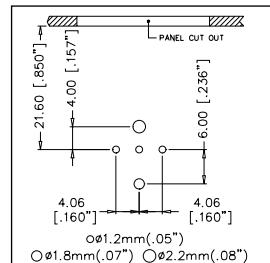


#### NOTE:

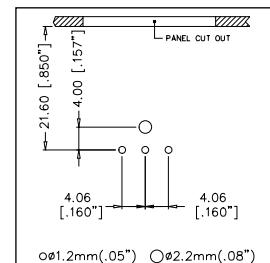
For Dual Gang dimensions other than the mounting centres shown opposite please refer to the P Series above.

### PCB FOOTPRINT

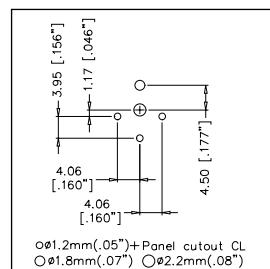
- CONNECTOR SIDE OF PCB



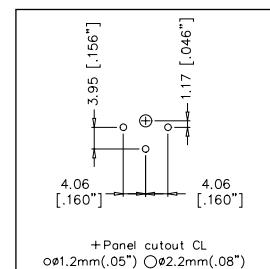
AC3FDPH / AC3FPPH



AC3MDPH / AC3MPPH



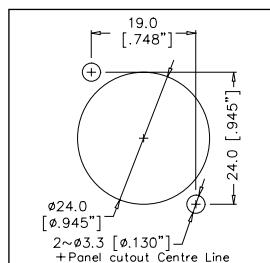
AC3FDPV / AC3FPPV



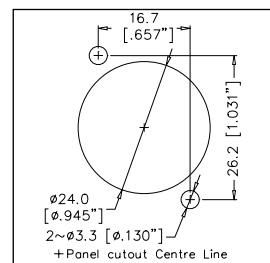
AC3MDPV / AC3MPPV



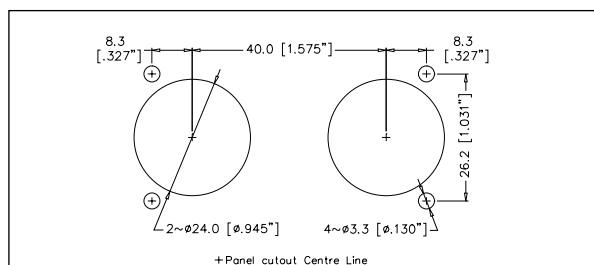
### PANEL CUTOUT DIMENSIONS - FRONT VIEW



AC3FDP / AC3MDP

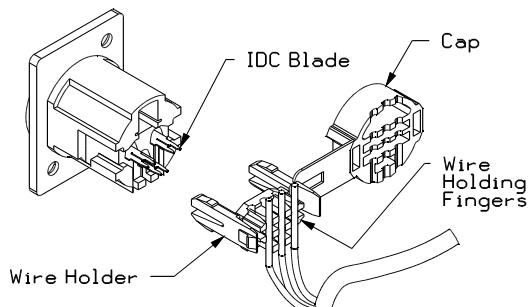


AC3FPP / AC3MPP



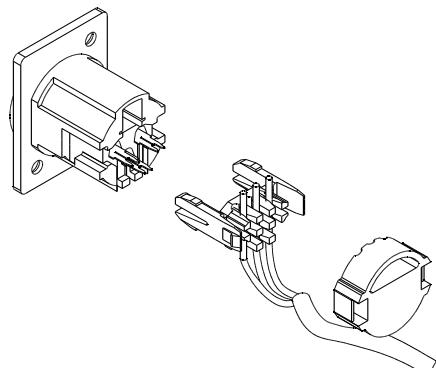
AC DUAL GANG

## AC IDC SERIES CHASSIS ASSEMBLY INSTRUCTIONS



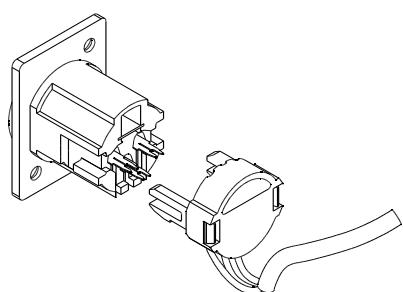
1

Lay the insulated conductors between the wire holding fingers. The fingers will retain the wire if it is inserted sufficiently.



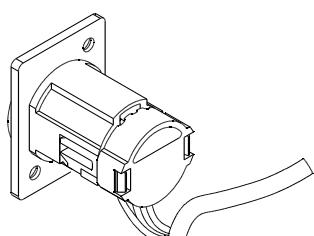
2

Break the strap off from the wire holder and the cap. Assemble the cap to the wire holder as shown. Push it home until the second snap operates.



3

Align the wire holder and cap assembly with the slots down the side of the connector body. Push together, being careful not to damage the IDC blades through misalignment.



4

Ensure wire holder snaps into the body.



AC SERIES CONNECTORS

## PDN TYPE

# Amphenol



This range has been specially designed for amplifier to loudspeaker connections. The polarity configuration being POSITIVE, DRAIN, NEGATIVE. Visual color coding insert with matching boot/backshell (blue or white) can be used for either channel selection and/or cable identification purposes. AC-PDN 11 & 31 are recommended for live source applications (amplifiers). AC-PDN 12 & 34 are recommended for load applications (speakers).

## Features:

- Solder Bucket connections.
- Designed for 25 Amps RMS usage.
- "Jaws" Cable Retention System, Max. Cable O.D. 8mm (0.351")
- Precision machined contacts accept up to 4mm<sup>2</sup> (12AWG) conductors.
- Quick and easy assembly – by hand or portable termination tool (Part Number T2860.)

**Options:** White or Blue housing and insert colour. Std. Jaws cable clamp.

**Specifications:** [Page 52](#)

**Panel Cutouts:** [Page 26](#)

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			PDN male, Cable connector, Positive, Negative, Drain contacts, Thermoplastic shell, Large Jaws cable clamp	Blue housing	<a href="#">AC-PDN-12-BLU</a>
				White housing	<a href="#">AC-PDN-12-WHT</a>
			PDN female, Cable connector, Positive, Negative, Drain contacts, Thermoplastic shell, Large Jaws cable clamp	Blue housing	<a href="#">AC-PDN-11-BLU</a>
				White housing	<a href="#">AC-PDN-11-WHT</a>
			PDN male, Chassis mount, Positive, Negative, Drain contacts, Thermoplastic shell	Blue housing	<a href="#">AC-PDN-34-BLU</a>
				White housing	<a href="#">AC-PDN-34-WHT</a>
			PDN female, Chassis mount, Positive, Negative, Drain contacts, Thermoplastic shell	Blue housing	<a href="#">AC-PDN-31-BLU</a>
				White housing	<a href="#">AC-PDN-31-WHT</a>





AC SERIES CONNECTORS

PDN TYPE

# Amphenol

## STANDARD DATA AC-PDN CONNECTORS

		VALUE
GENERAL CHARACTERISTICS	Number of contacts	2 + Drain
	PDN Contact Arrangement (Front View of Socket & Pin Insert)	 
	Termination	Solder
	Max. Wire Gauge - Stranded wire:	
	Power	12AWG
	Drain	19AWG
ELECTRICAL CHARACTERISTICS	Flammability rating of plastics	UL94V-0
	Service Voltage RMS	133V <sup>1)</sup>  <b>NOTE:</b> Do not use this series of connectors for mains applications. The drain contact dimensions make it unsuitable for use as an earth contact.
	Test Voltage AC RMS	1400V
	Current carrying capacity:	7.5A
	Typical Contact Resistance	≤ 3mΩ
	Insulation Resistance	≥ 1GΩ
CLIMATIC CHARACTERISTICS	Protection Class	IP40
	Operating Temperature	-25 °C to +75 °C (-13°F to +167°F)
MECHANICAL CHARACTERISTICS	Insertion and Withdrawal Force	≥ 10N - ≤ 30N
	Weight - Thermoplastic <sup>2)</sup>	19g (0.041lb)
	Typical Cable Retention Force	22Kg to 44Kg (50lb to 100lb)
	Cable O.D. Range - JAWS Clamp	6.5 mm to 8mm (0.255" to 0.314") - Standard 3 mm to 6.5 mm (0.118" to 0.255") - Optional - Contact us
	Mechanical Operations	1000 mating cycles
MATERIALS	Connector Shell	Thermoplastic, UL94V-0 Modified PPE Resin
	Shell Colour	Black
	Insulators	UL94V-0 PBT Resin or Modified PPE Resin
	Contact	
	Machined Solder-(Material/Plating)	Brass / Silver or Gold (optional)

<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.



## EP / AP SERIES HIGH POWER CONNECTORS

The EP Series incorporates a rugged zinc diecast shell to give it maximum durability when used in demanding situations. The EP cable connector cable flex relief design minimises cable bend stress at point of entry into the connector housing.

The AP Series Shell is manufactured from tough, durable thermoplastic, and ideal for fixed indoor installations. Both the EP and AP Series utilise the same contact and insulator components.

### Features

- High current contacts for distortion free signal.
- Tough, durable zinc diecast shell for the EP series.
- Cost effective durable thermoplastic shell for the AP series.
- EP series available in 3, 4, 5, 6 and 8 contact arrangements
- AP series available in 4, 5, 6, and 8 contact arrangements.
- Cable clamp capable of supporting cables from 9mm (0.35") to 16mm (0.63") in diameter.
- Quick release, vibration resistant latch lock.
- EP Cable Connectors are supplied with two different boots for different cable diameters.
- AP & EP Series are completely intermateable.

### Options

- Solder Bucket termination
- Nickel Plated Zinc Alloy shell
- Black finished Zinc Alloy shell
- Precision machined contacts
- Thermoplastic shell

### Ordering Codes

We have listed the more common ordering codes in each section. Please contact us if you need any further assistance.

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

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





The EP Series has set the standard in high performance speaker connectors. Apart from its durability and strength, it offers consistent superior power handling capabilities.

**Features:**

- Solder Bucket connections.
- Precision machined contacts.
- Diecast Metal Housings
- High current contacts
- Male and female cable and chassis connectors available.
- EP Cable Connectors are supplied with two different boots for different cable diameters.

**Options:** Black Finish Shell.

**Specifications:** Page 57-58

**Panel Cutouts:** Page 58

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
ISO ASSEMBLY OF EP MALE			EP Male cable connector, Machined contacts, Metal Shell	3 pole nickel finish 3 pole black finish 4 pole nickel finish 4 pole black finish 5 pole nickel finish 5 pole black finish 6 pole nickel finish 6 pole black finish 8 pole nickel finish 8 pole black finish	EP-3-12 EP-3-12B EP-4-12 EP-4-12B EP-5-12 EP-5-12B EP-6-12 EP-6-12B EP-8-12 EP-8-12B
ISO ASSEMBLY OF EP FEMALE			EP Female cable connector, Machined contacts, Metal Shell	3 pole nickel finish 3 pole black finish 4 pole nickel finish 4 pole black finish 5 pole nickel finish 5 pole black finish 6 pole nickel finish 6 pole black finish 8 pole nickel finish 8 pole black finish	EP-3-11P EP-3-11PB EP-4-11P EP-4-11PB EP-5-11P EP-5-11PB EP-6-11P EP-6-11PB EP-8-11P EP-8-11PB



# Amphenol

EP SERIES HIGH POWER CONNECTORS

METAL TYPE - SOLDER

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		EP Male chassis mount, Round Flange, Machined contacts, Metal Shell	3 pole nickel finish	EP-3-14	
			3 pole black finish	EP-3-14B	
			4 pole nickel finish	EP-4-14	
			4 pole black finish	EP-4-14B	
			5 pole nickel finish	EP-5-14	
			5 pole black finish	EP-5-14B	
			6 pole nickel finish	EP-6-14	
			6 pole black finish	EP-6-14B	
			8 pole nickel finish	EP-8-14	
		EP Female chassis mount, Round Flange, Machined contacts, Metal Shell	3 pole nickel finish	EP-3-13P	
			3 pole black finish	EP-3-13PB	
			4 pole nickel finish	EP-4-13P	
			4 pole black finish	EP-4-13PB	
			5 pole nickel finish	EP-5-13P	
			5 pole black finish	EP-5-13PB	
			6 pole nickel finish	EP-6-13P	
			6 pole black finish	EP-6-13PB	
			8 pole nickel finish	EP-8-13PT	
		EP Female chassis mount, Round Flange, Stamped contacts, Metal Shell	8 pole nickel finish	EP-8-13P	
			8 pole black finish	EP-8-13PB	



# Amphenol

AP SERIES HIGH POWER CONNECTORS

THERMOPLASTIC TYPE - SOLDER



The AP Series provides the same power handling performance as the EP Series in a cost effective, yet durable Thermoplastic housing.

#### Features:

- Solder Bucket connections.
- Precision machined contacts.
- Thermoplastic Housings
- High current contacts
- Male & Female Cable and Chassis connectors available.

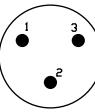
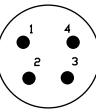
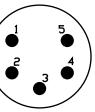
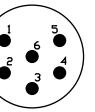
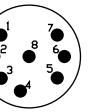
**Specifications:** Page 57-58

**Panel Cutouts:** Page 58

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			AP Male cable connector, Machined contacts, Thermoplastic Black shell.	4 pole	AP-4-12
				5 pole	AP-5-12
				6 pole	AP-6-12
				8 pole	AP-8-12
			AP Male chassis mount, Round Flange, Machined contacts, Thermoplastic Black shell.	4 pole	AP-4-14
				5 pole	AP-5-14
				6 pole	AP-6-14
				8 pole	AP-8-14
			AP Female chassis mount, Round Flange, Machined contacts, Thermoplastic Black shell.	4 pole	AP-4-13
				5 pole	AP-5-13
				6 pole	AP-6-13
				8 pole	AP-8-13
			AP Male chassis mount, Rectangular Flange, Machined contacts, Thermoplastic Black shell.	4 pole	AP-4-22
				5 pole	AP-5-22
				6 pole	AP-6-22
				8 pole	AP-8-22
			AP Female chassis mount, Rectangular Flange, Machined contacts, Thermoplastic Black shell.	4 pole	AP-4-21
				5 pole	AP-5-21
				6 pole	AP-6-21
				8 pole	AP-8-21



## STANDARD DATA EP/AP

	VALUE					
GENERAL CHARACTERISTICS	Number of contacts	3	4	5	6	8
	Contact Arrangements (Front view of pin insert)					
	Termination	SOLDER				
ELECTRICAL CHARACTERISTICS	Wire Gauge - Stranded wire:	12AWG	12AWG	12AWG	12AWG	14AWG
	Flammability	UL94V-0				
ELECTRICAL CHARACTERISTICS	Service Voltage RMS <sup>1)</sup>	460V	660V	200V	200V	100V
	Test Voltage AC RMS	2400V	3000V	1600V	1600V	1300V
	Current carrying capacity	20A	20A	20A	20A	15A
	Typical Contact Resistance	$\leq 3\text{m}\Omega$				
	Insulation Resistance	$\geq 1000\text{M}\Omega$				
CLIMATIC CHARACTERISTICS	Protection Class	IP40				
	Operating Temperature	-25 °C to +75 °C (-13°F to +167°F)				
MECHANICAL CHARACTERISTICS	Weight - EP 11 & 12 <sup>2)</sup>	80g (0.176lb)	84g (0.185lb)	86g (0.189lb)	86g (0.189lb)	86g (0.189lb)
	Weight - EP 13 & 14 <sup>2)</sup>	48g (0.105lb)	50g (0.110lb)	54g (0.119lb)	54g (0.119lb)	54g (0.119lb)
	Weight - AP 11 & 12 <sup>2)</sup>	N/A	42g (0.092lb)	44g (0.097lb)	44g (0.097lb)	44g (0.097lb)
	Weight - AP 13, 14, 21 & 22 <sup>2)</sup>	N/A	26g (0.057lb)	30g (0.066lb)	30g (0.066lb)	28g (0.061lb)
	Typical Cable retention force	22Kg to 44Kg (50lb to 100lb) - Dependant on cable material and diameter				
	Mechanical operations	1000 mating cycles				

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

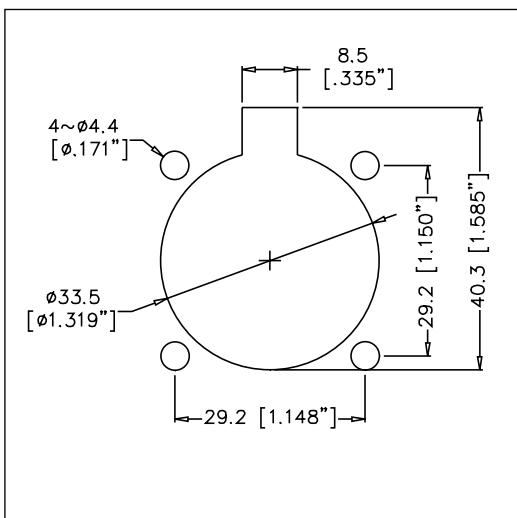
<sup>2)</sup> Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.


## STANDARD DATA EP/AP (CONT'D)

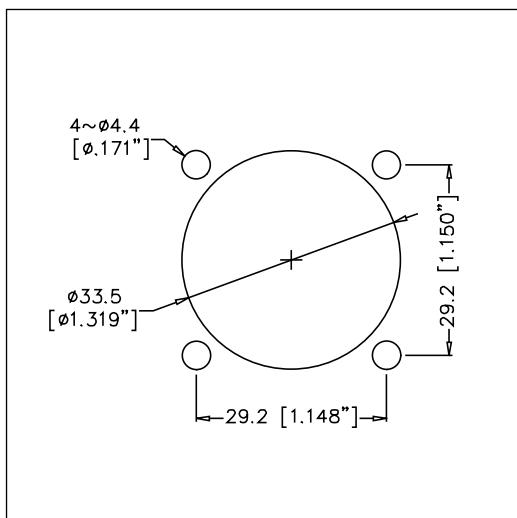
		DETAILS	
MATERIALS	TYPE	AP	EP
	Connector shell	Modified PPE Resin	Diecast Zinc Alloy
	Shell finish	Black	Satin Nickel or Black
	Insulators	UL94V-0 PBT Resin	
	Cable Bushing	Silicon Rubber	UL94 HB Thermoplastic Elastomer
	Male contact Machined - Solder		
	Material / Plating	Brass / Bright Tin	
	Female contact Machined - Solder		
	Material / Plating	Brass / Bright Tin	
CLAMPING CHARACTERISTICS	Cable OD Range	11mm to 17mm (0.43" to 0.67")	9mm to 16mm (0.35" to 0.63")
	Retention Method	Two opposing plastic screws	Metal saddle clamp

## EP/AP SERIES PANEL CUTOUT DATA - FRONT VIEW

EP 13/AP 13/AP 21



EP 14/AP 14/AP 22



# Amphenol

AC SERIES

ACCESSORIES



Amphenol have developed a range of accessories to complement the AC Series connectors including:

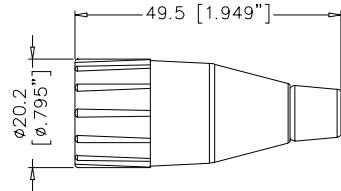
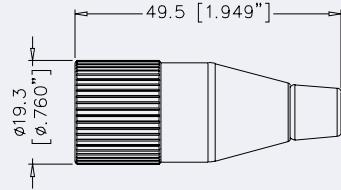
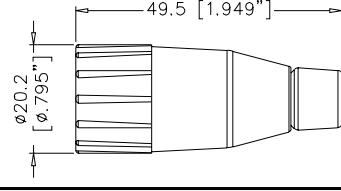
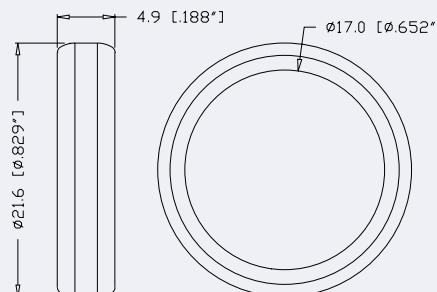
- Colour coded boots(backshells) and rings to assist in cable identification.
- In-line adaptors. Pre-wired for convenience.
- Termination tool for fast assembly of cable connectors.
- Chassis mounting clip for installation with, or without screws.
- Metal boots(backshells) for rugged environments.

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole male to 3 pole male adapter, Pre wired, Metal Shell	Nickel Finish	AC3M3MW	
			Black Finish	AC3M3MBW	
		XLR 3 pole female to 3 pole male adapter, Pre wired, Metal Shell	Nickel Finish	AC3F3FW	
			Black Finish	AC3F3FBW	
		Termination Tool	For IDC and Solder cable connectors	T2860	
	<p>Front mount application using a spring steel mounting clip Four spring steel fingers clip onto shell</p> <p>Rear mounting application using a spring steel push on mounting clip</p> <p>1/8" Pop Rivet Steel Mount Clip The clip is supplied with two 3.35mm dia. holes for pop rivet applications</p>	Mounting Clip used for mounting AC series chassis receptacle with or without screws or pop rivets	Single style clip, 2.4mm holes for M3 self tapping screw.	029-4006-002	
			Single style clip, 3.35mm holes.	029-4006-000	
			Dual style clip, 3.35mm holes.	029-4006-001	

ACC.

# Amphenol

AC SERIES  
ACCESSORIES

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		<p>AC Coloured Boot / Backshell</p> <p><b>Note:</b> Number Identification optional. (Please contact us.)</p>	AC Coloured Boot / Backshell	Brown	AC-NUT-BRN
				Red	AC-NUT-RED
				Orange	AC-NUT-ORG
				Yellow	AC-NUT-YEL
				Green	AC-NUT-GRN
				Blue	AC-NUT-BLU
				Violet	AC-NUT-VIO
				Grey	AC-NUT-GRY
				White	AC-NUT-WHT
		<p>AC Metal Boot / Backshell, Black Finish</p>	AC Metal Boot / Backshell, Black Finish	Not Applicable	AC-NUT-METAL
				Not Applicable	AC-NUT-J-BLK
		<p>AC Coloured Identification Rings</p> <p><b>Note:</b> Number Identification optional. (Please contact us.)</p>	AC Coloured Identification Rings	Brown	AC-RING-BRN
				Red	AC-RING-RED
				Orange	AC-RING-ORG
				Yellow	AC-RING-YEL
				Green	AC-RING-GRN
				Blue	AC-RING-BLU
				Violet	AC-RING-VIO
				Grey	AC-RING-GRY
				White	AC-RING-WHT
	Not Applicable	<p>Connector display case</p> <p>Includes: AC Series AP Series EP Series AC - BNC Accessories</p>	Connector display case	Includes: AC Series AP Series EP Series AC - BNC Accessories	CAT-AUDIO-CASE

ACC.



## BNC 75Ω RF CONNECTORS

Within the internationally standardised BNC mating face dimensions, a perfect 75 ohm characteristic impedance cannot be realised. However, at frequencies up to 1000 MHz, the small impedance deviation is negligible for practical applications. Our true 75 ohm connectors with a typical VSWR reading of 1.06:1 at 2000 MHz are identified by an asterisk following the part number.

### Applications

- Broadcast
- High bandwidth video equipment
- D1/D2 serial digital
- Graphic work stations
- Telephony / Workstations

### Options

- Crimp Plugs
- Jack to Jack adapters
- Patch Panels
- 'D' Shell Jacks
- Plug to Plug U-Link connectors
- Crimp Tools

### Ordering Codes

We have listed the more common ordering codes in each section. Amphenol offer an extensive range of RF connectors for most applications.

Please visit [www.amphenolconnex.com](http://www.amphenolconnex.com) for further information. Please contact us if you need any further assistance.

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

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





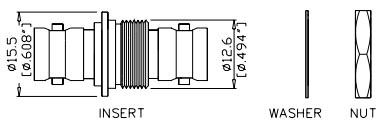
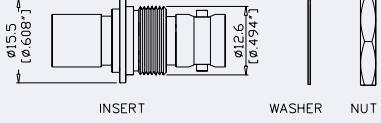
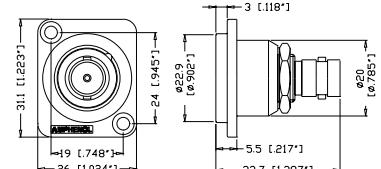
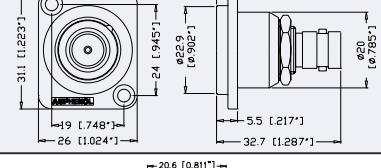
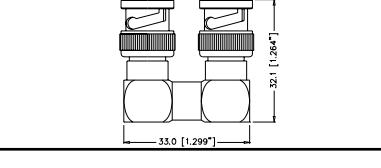
Amphenol manufacture a large range of connectors to suit cables other than those listed below, for example Belden YR23769 and 46899, please contact us to discuss your specific requirements.

The complete Amphenol Connex catalogue featuring a wide range of RF connector products is available on request. Item code CAT-CONNEX-01.

T1 connectors 0-4GHz are available on request.

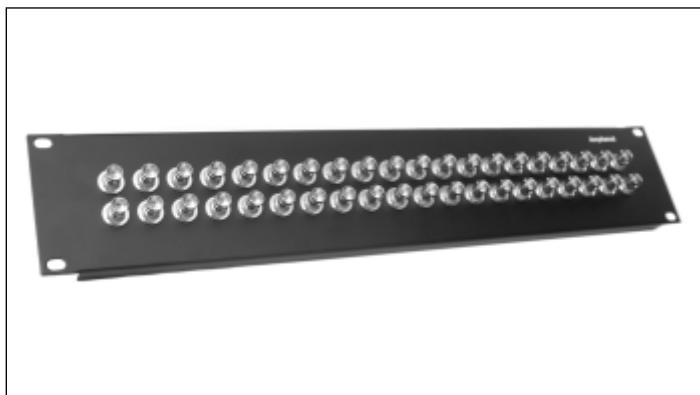
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	CABLE TYPE RG-/U	INSULATION	CRIMP TOOL	PART NUMBER
	Straight Crimp Plug - Captive Contact-Standard Cable  	59/ 62/ 140/ 210	Delrin	A	112119	
			Teflon	A	112952*	
		59/ U-20AWG	Delrin	A	112507	
			Teflon	A	112956*	
		11	Teflon	D	112576	
		11/ U-14AWG/ B8213/ B9292/ B7731/ B1859A	Teflon	D	112606	
		6/ 143/ 212	Delrin	E	112508	
		B1694A/ B9248	Delrin	E	112565	
			Teflon	H	112957*	
		6 PLENUM/ B1695A	Delrin	E	112519	
			Teflon	E	112958*	
		B8281/ B9231/ B9141	Delrin	E	112509	
			Teflon	E	112953*	
		B88281	Delrin	E	112625	
		B1505A	Teflon	A	112951*	
		B735A1	Teflon	B	112950*	
	Straight Crimp Plug – Captive Contact- Miniature Cable (Remark: With Teflon sleeve / Hex crimp size .178")  	179/ 187/ B9221	Delrin	B	112133	
		179/ U DOUBLE BRAIDED	Delrin	B	112644	
		180/ 195/ 122/ B8218/ B1865A/ B1855	Delrin	B	112521	
			Teflon	B	112955*	
		59/ U PLENUM-20AWG	Teflon	B	112975*	

Note: \*Centre contact .053" diameter, 30u" Au. True 75 ohm. Use .044 hex or 12 indent crimp part 47009.

PRODUCT - FIGURE	DRAWING	DESCRIPTION & CABLE TYPE RG-/U	INSULATION	CRIMP TOOL	PART NUMBER
		Bulkhead Adapter -Isolated Jack to Jack - Straight Bayonet Lock to Bayonet Lock	Teflon	N/A	AC-BNC-JJA-75
		Bulkhead Adapter -Isolated Jack to Jack - Straight Push on to Bayonet Lock	Teflon	N/A	AC-BNC-PJA-75
		Bulkhead Adapter -Isolated, 'D' Shell Housing Jack to Jack, Bayonet Lock to Bayonet Lock, Nickel Finish	Teflon	N/A	AC - BNC - JJ - 75
		Bulkhead Adapter -Isolated, 'D' Shell Housing Jack to Jack, Bayonet Lock to Bayonet Lock, Black Finish	Teflon	N/A	AC - BNC - JJ - 75B
		Bulkhead Adapter -Isolated, 'D' Shell Housing Jack to Jack, Push on to Bayonet Lock, Nickel Finish	Teflon	N/A	AC - BNC - PJ - 75
		Bulkhead Adapter -Isolated, 'D' Shell Housing Jack to Jack, Push on to Bayonet Lock, Black Finish	Teflon	N/A	AC - BNC - PJ - 75B
		U - Link Centre to Centre - 20.6 mm  Note: Custom Sizes available please contact factory.	Teflon	N/A	BNC - U-LINK 75*1

## BNC 75Ω RF ACCESSORIES AND TOOLING

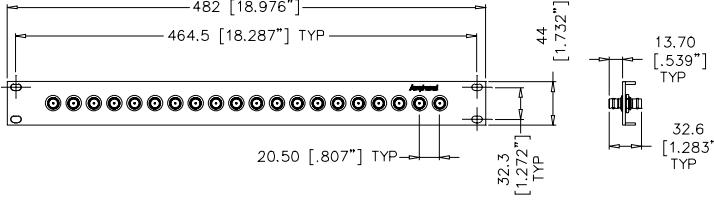
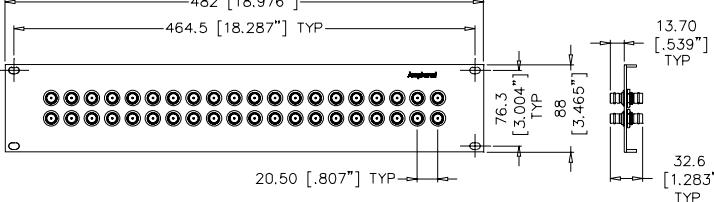
PRODUCT - FIGURE	DESCRIPTION	DIE CAVITIES	CABLE TYPE RG-/U	CONNECTOR GUIDE	PART NUMBER
	Crimp tool with Die Set	.255 / .213 / .068	59 / 62	A	47-10070
		.178 / .128 / .068	179 / 187 / 180 / 195	B	47-10150
		.429 / .100 / .080	11	D	47-10090
		.324 / .255 / .068 / .042	6 / 59 / B8281	E	47-10110
		.350 / .320 / .255	RG59	H	47-10100
		.324 / .178 / .068	6 / 179 / 187	K	47-10200
		.255 / .178 / .068 / .052	59 / 62 / 179 / 187	M	47-10220
		.278 / .255 / .068 / .042	B1505A / B1694A	N	47-10240
	12-Way indent crimp tool	This 12 point, full ratchet crimp tool terminates precision BNC, .053 diameter, 75Ω centre contacts, as specified in this catalogue. Tool is designed for Telco/Broadcast applications and is built to M22520 specifications.	True 75 ohm		47009


**Features:**

- Amphenol 75Ω connectors
- Bayonet lock or Push-on types
- Supplied with adhesive strip ID labels

**Options:**

- 1RU, 20 BNC connectors or 2RU, 40 BNC connectors
- Aluminium in Clear or Black anodised
- Steel in Black powder coat
- Customised versions available on request

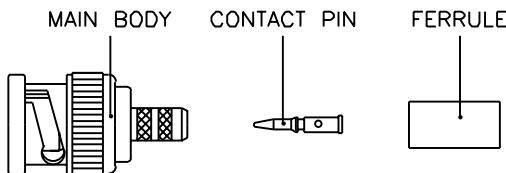
PRODUCT - FIGURE DRAWING Dimensions in mm (inches)	DESCRIPTION	MATERIAL / FINISH	LOADED WITH (refer to page 63 for specifications)	PART NUMBER
 	1RU 1X20 Patch Panel, Supplied with 1 ID label	Steel / Black	Empty Panel	AC-BNC20M
		Steel / Black	AC-BNC-JJA-75	AC-BNC20MJ75
		Steel / Black	AC-BNC-PJA-75	AC-BNC20MP75
		Aluminium / Clear	Empty Panel	AC-BNC20A
		Aluminium / Clear	AC-BNC-JJA-75	AC-BNC20AJ75
		Aluminium / Clear	AC-BNC-PJA-75	AC-BNC20AP75
		Aluminium / Black	Empty Panel	AC-BNC20B
		Aluminium / Black	AC-BNC-JJA-75	AC-BNC20BJ75
		Aluminium / Black	AC-BNC-PJA-75	AC-BNC20BP75
 	2RU 2X20 Patch Panel, Supplied with 2 ID labels	Steel / Black	Empty Panel	AC-BNC40M
		Steel / Black	AC-BNC-JJA-75	AC-BNC40MJ75
		Steel / Black	AC-BNC-PJA-75	AC-BNC40MP75
		Aluminium / Clear	Empty Panel	AC-BNC40A
		Aluminium / Clear	AC-BNC-JJA-75	AC-BNC40AJ75
		Aluminium / Clear	AC-BNC-PJA-75	AC-BNC40AP75
		Aluminium / Black	Empty Panel	AC-BNC40B
		Aluminium / Black	AC-BNC-JJA-75	AC-BNC40BJ75
		Aluminium / Black	AC-BNC-PJA-75	AC-BNC40BP75
Panel ID label		Plastic	Not Applicable	AC-BNC-LABEL



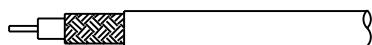
## BNC 75Ω RF ASSEMBLY INSTRUCTIONS

### ASSEMBLY A

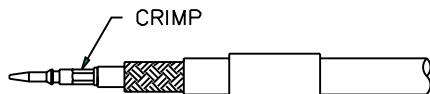
#### STEP 1



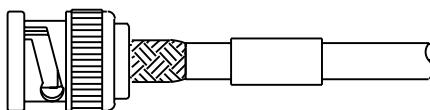
#### STEP 2



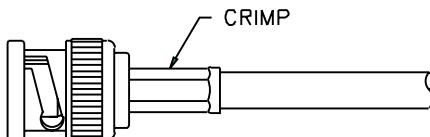
#### STEP 3



#### STEP 4



#### STEP 5



**STEP 1.** All parts of the connector are shown. A crimp tool is necessary to complete the connection.

**STEP 2.** Strip the cable inner conductor, dielectric, braid, and jacket as per "RECOMMENDED CABLE STRIPPING DIM'S" in catalogue.

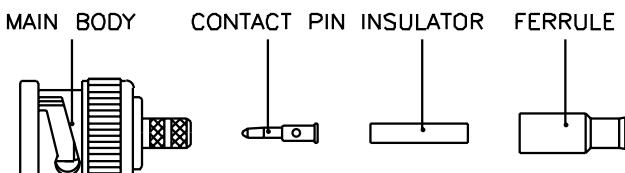
**STEP 3.** Insert inner conductor into the CONTACT PIN, crimp it with the crimp tool as shown. Then slide the FERRULE onto cable.

**STEP 4.** Insert the MAIN BODY into braid and dielectric.

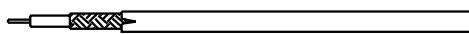
**STEP 5.** Slide the FERRULE over braid, crimp it with the crimp tool as shown.

### ASSEMBLY B

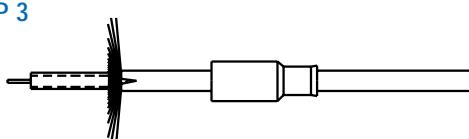
#### STEP 1



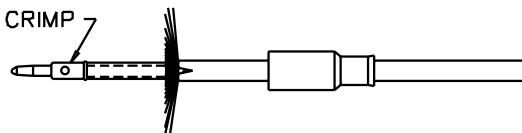
#### STEP 2



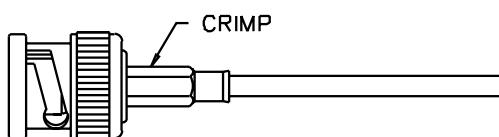
#### STEP 3



#### STEP 4



#### STEP 5



**STEP 1.** All parts of the connector are shown. A crimp tool is necessary to complete the connection.

**STEP 2.** Strip the inner conductor, dielectric, and jacket as per "RECOMMENDED CABLE STRIPPING DIM'S" in catalogue.

**STEP 3.** Slide the FERRULE over braid wire and slide the INSULATOR on to dielectric as shown.

**STEP 4.** Insert inner conductor into the CONTACT PIN, crimp it with crimp tool as shown.

**STEP 5.** Push cable and parts into the MAIN BODY until it stops. Then slide the FERRULE over braid wire and against the MAIN BODY, crimp it with the crimp tool as shown.



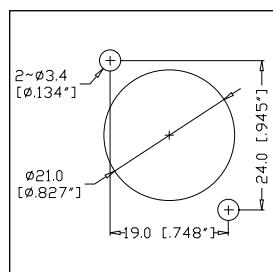
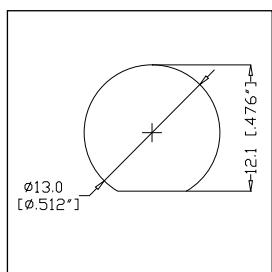
## STANDARD DATA BNC 75Ω RF CONNECTORS

		VALUE
GENERAL CHARACTERISTICS	Mating	Bayonet Lock
	Cable Attachment	Crimp - Crimp
ELECTRICAL CHARACTERISTICS	Impedance	75Ω
	Frequency Range	0 - 1 GHz
	Voltage Rating	500V RMS
	Dielectric withstanding voltage	1500 Volts RMS
	VSWR	1.05 + 0.1f(GHz) DC to 1 GHz
	Contact Resistance	
	Centre Contact	1.5 milliohm
	Outer Contact	1.0 milliohm
	Insulation Resisance	5000 MΩ (min.)
MATERIALS	Part	Material
	Body, Coupling sleeves	Brass
	Crimp Ferrule	Annealed Copper
	Male Contact	Brass
	Female Contact	Beryllium Copper or Phosphor Bronze
	XLR Housing	Diecast Zinc Alloy
	Insulators	Teflon or Delrin
		Finish
		Nickel
		Nickel
		Gold
		Gold
		Satin Nickel or Black Polyester
		Natural

**NOTE:** These characteristics are typical and may not apply to all connectors.

Rev 1 - 08/2003

## PANEL CUTOUTS - FRONT VIEW

 AC-BNC-PJ-75  
 AC-BNC-JJ-75

 AC-BNC-PJA-75  
 AC-BNC-JJA-75




## 1/4" PHONE CONNECTORS

Amphenol has introduced two ranges of 1/4" Phone plug connectors to satisfy the needs of the manufacturer and the end user. The PRO - a heavy duty on-road plug and the MUSICIAN - a solid performing general use plug. Both series offer different features and benefits and the most suitable type will be determined by application, budget and personal choice. The 1/4" Phone plug jacks range has been widened with the stackable (piggy back) OEM series, saving board space and manufacturing costs. The RCA and Banana plugs complete our extensive range of entertainment interconnects.

### Applications

- Audio Cables and Snakes
- Amplifiers
- Speakers
- Mixing desks
- Rack mount equipment
- Patch panels

### Features / Options – PRO RANGE 1/4"

#### Phone Plug T-Series.

- Mono or Stereo (TRS)
- Stylish shell design with Ergonomic grip
- Silver or Gold contact plating
- Keyed Shell
- Optional heavy duty metal backshell / boot
- Great solderability
- Increased solder area on ground contact
- "Jaws" Cable Clamp
- Precision machined contacts

### Features / Options – MUSICIAN RANGE

#### 1/4" Phone Plug

- Mono or Stereo (TRS)
- Compact Shell
- Straight or Right angle
- Stylish shell design
- Flexible grommet cable protection
- Silver or Gold contact plating
- Satin, Nickel or Black finish
- Machined or Diecast shell

### Features / Options – OEM RANGE 1/4"

#### Phone Jack

- Mono or Stereo (TRS)
- Stackable (Piggy back) mounting
- Vertical or Horizontal PCB mount
- Mono and Stereo switched contacts
- Solder contacts
- Combo contacts
- Metal nut
- Plastic nut

### Features / Options – RCA Plug

- Female or Male
- Red or Black strip for channel I.D.
- Gold plated finish
- Gold plated contacts

### Features / Options – Banana Plug

- Red or Black for channel I.D.
- Gold or Nickel plated contacts

### Jaws Cable Clamp Options for T-Series



Standard Jaws cable clamp (Black), Cable O.D 3mm to 6mm (0.118" to 0.236")



Large Jaws cable clamp (Purple), Cable O.D 6mm to 7.5mm (0.236" to 0.295")

### Ordering Codes

We have listed the more common ordering codes in each section. Please contact us if you need any further assistance.

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

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



# Amphenol


**Features:**

- Mono or Stereo (TRS).
- Stylised shell design with Ergonomic grip.
- Robust diecast shell in Satin nickel or Black finish.
- Silver or Gold contact plating.
- Keyed shell.
- Optional heavy duty metal backshell / boot.
- Great solderability.
- Increased solder area on ground contact.
- "Jaws" Cable Clamp.
- Precision machined contacts.
- Quick and easy assembly.

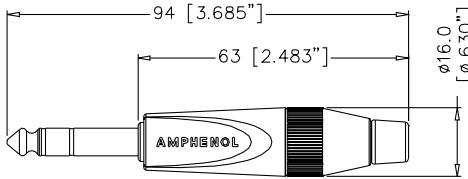
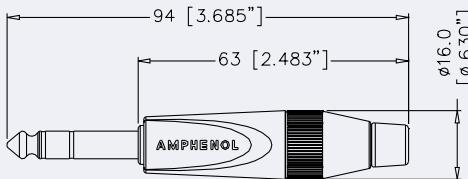
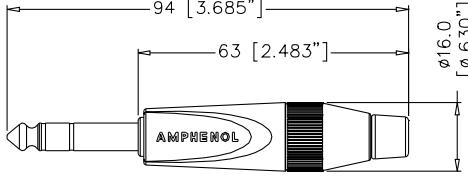
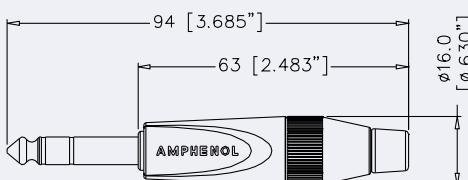
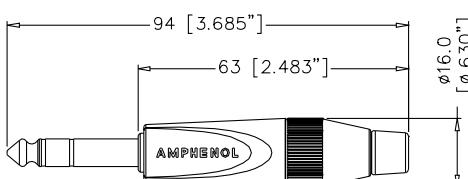
**Options:** Gold Contacts, Large or Small Jaws Cable Clamp, Black Shell, Metal Backshell / Boot, Bulk Pack.

Part Number Breakdown: [Page 70](#)

Specifications: [Page 71](#)

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		1/4" (6.35mm $\varnothing$ ) Mono Phone plug, Jaws cable clamp, Thermoplastic backshell, Satin finish.	Standard	<a href="#">TM2P</a>
			Gold Plated Contacts	<a href="#">TM2P-AU</a>
			Large Cable Clamp	<a href="#">TM2PJ</a>
			Bulk Pack	<a href="#">TM2P BULK</a>
		1/4" (6.35mm $\varnothing$ ) Mono Phone plug, Jaws cable clamp, Thermoplastic backshell, Black finish.	Standard	<a href="#">TM2PB</a>
			Gold Plated Contacts	<a href="#">TM2PB-AU</a>
			Large Cable Clamp	<a href="#">TM2PBJ</a>
			Bulk Pack	<a href="#">TM2PB BULK</a>
		1/4" (6.35mm $\varnothing$ ) Stereo Phone plug, Jaws cable clamp, Thermoplastic backshell, Satin finish.	Standard	<a href="#">TS3P</a>
			Gold Plated Contacts	<a href="#">TS3P-AU</a>
			Large Cable Clamp	<a href="#">TS3PJ</a>
			Bulk Pack	<a href="#">TS3P BULK</a>
		1/4" (6.35mm $\varnothing$ ) Stereo Phone plug, Jaws cable clamp, Thermoplastic backshell, Black finish.	Standard	<a href="#">TS3PB</a>
			Gold Plated Contacts	<a href="#">TS3PB-AU</a>
			Large Cable Clamp	<a href="#">TS3PBJ</a>
			Bulk Pack	<a href="#">TS3PB BULK</a>



PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
	 94 [3.685"] 63 [2.483"] Ø16.0 [Ø.630"]	1/4" (6.35mmø) Mono Phone plug, Jaws cable clamp, Metal backshell, Satin finish.	Standard Gold Plated Contacts Large Cable Clamp Bulk Pack	TM2PN TM2PN-AU TM2PNJ TM2PN BULK
	 94 [3.685"] 63 [2.483"] Ø16.0 [Ø.630"]	1/4" (6.35mmø) Mono Phone plug, Jaws cable clamp, Metal backshell, Black finish.	Standard Gold Plated Contacts Large Cable Clamp Bulk Pack	TM2PBM TM2PBM-AU TM2PBMJ TM2PBM BULK
	 94 [3.685"] 63 [2.483"] Ø16.0 [Ø.630"]	1/4" (6.35mmø) Stereo Phone plug, Jaws cable clamp, Metal backshell, Satin finish.	Standard Gold Plated Contacts Large Cable Clamp Bulk Pack	TS3PN TS3PN-AU TS3PNJ TS3PN BULK
	 94 [3.685"] 63 [2.483"] Ø16.0 [Ø.630"]	1/4" (6.35mmø) Stereo Phone plug, Jaws cable clamp, Metal backshell, Black finish.	Standard Gold Plated Contacts Large Cable Clamp Bulk Pack	TS3PBM TS3PBM-AU TS3PBMJ TS3PBM BULK
	 94 [3.685"] 63 [2.483"] Ø16.0 [Ø.630"]	1/4" (6.35mmø) Phone plug, Jaws cable clamp, Black Metal backshell, Satin finish shell.	Mono (Std. Clamp) Mono (Large Clamp) Stereo (Std. Clamp) Stereo (Large Clamp)	TM2PM TM2PMJ TS3PM TS3PMJ





1/4" PHONE PLUGS

STANDARD DATA

# Amphenol

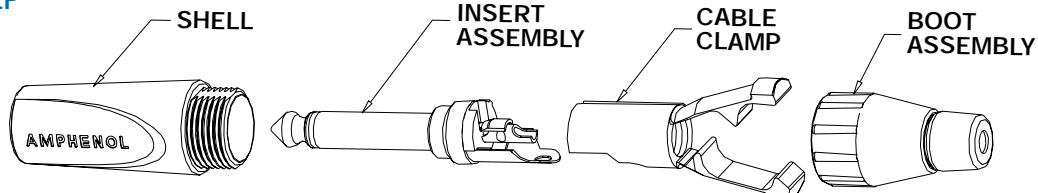
## PART NUMBER BREAKDOWN

### T-SERIES (PRO RANGE)

E. G . **TS3PBMJ-AU BULK**  
**T** (Series Prefix), **S3**(Stereo), **P**lug **B**lack, **M**etal Nut (Black), **J** (Large Jaws),  
- **AU** (Gold Plated Contacts), **BULK** Packaged.

	SERIES PREFIX	CONTACT TYPE	SHELL TYPE AND FINISH	BACKSHELL STYLE	CABLE CLAMP	CONTACT PLATING	PACKAGING	
	T	S3	PB	M	J	-	AU	BULK
SERIES PREFIX	T	=	Series Prefix					
CONTACT TYPE	M2	=	2 Pole (mono)					
	S3	=	3 Pole, tip/ring/sleeve (stereo)					
SHELL TYPE AND FINISH	P	=	Plug Satin Nickel					
	PB	=	Plug Matt Black					
BACKSHELL TYPE	Blank	=	Plastic Nut					
	M	=	Metal Nut - Black					
	N	=	Metal Nut - Satin Nickel					
CABLE CLAMP	Blank	=	Standard Jaws 3mm to 6mm					
			Cable O.D. (0.118"Ø to 0.236"Ø)					
	J	=	Large Jaws 6mm to 7.5mm					
			Cable O.D.(0.236"Ø to 0.295"Ø)					
CONTACT PLATING	Blank	=	Silver Plated Contacts (Standard)					
	AU	=	Gold Plated Contacts					
PACKAGING	Blank	=	Individual Bags					
	BULK	=	Bulk Packed					

#### ISO VIEW OF TM2





1/4" PHONE PLUGS

STANDARD DATA

# Amphenol

## 1/4" PHONE PLUG TECHNICAL DATA

		VALUE
GENERAL CHARACTERISTICS	Number of Contacts	2 Pole (Mono) 3 Pole Tip Ring Sleeve (Stereo)
	Termination	Solder
	Max. Wire Gauge - Stranded Wire	2 Pole (Mono): AWG 16~1.5mm <sup>2</sup> 3 Pole (Stereo): AWG 18~1mm <sup>2</sup>
	Flammability rating of insulating plastics	UL94V-0
	Solderability, complies with	IEC 68-2-20
ELECTRICAL CHARACTERISTICS	Current Carrying Capacity	10A (Depends on Mating Connector and Cable)
	Typical Contact Resistance	Depends on Mating Connector
	Insulation resistance (initial)	>2GΩ
	After Damp Heat Test	≥ 1GΩ
	Dielectric Withstand Voltage	2 Pole : 1.5 kV dc 3 Pole : 1 kV dc
CLIMATIC CHARACTERISTICS	Protection Class	IP40
	Operating Temperature	-25°C to + 75°C (-13°F to + 167°F)
MECHANICAL CHARACTERISTICS	Insertion and Withdrawal Force	≥ 10N - ≤ 30N
	Weight <sup>1)</sup> Thermoplastic Backshell	28g (0.061lb)
	Weight <sup>1)</sup> Metal Backshell	35g (0.077lb)
	Typical Cable Retention Force	22kg to 44kg (50lb to 100lb) - Dependent on cable material and diameter.
	Cable O.D. - Standard Jaw	3mm to 6mm (0.118" to 0.236")
	Cable O.D. - Large Jaw	6mm to 7.5mm (0.236" to 0.295")
MATERIALS	Connector Shell Material	Diecast Zinc Alloy EZDA No.3
	Shell Finish	Satin Nickel or Black Polyester
	Insulators	UL94 V-0 PBT Resin or Modified PPE Resin - Black
	Boot / Backshell	UL94 V-0 PBT Resin or Modified PPE Resin - Black or Metal CuZn <sup>39</sup> Pb <sup>3</sup>
	Finish	Satin Nickel or Black
	Cable Clamp	UL94 V-0 PBT Modified PPO Resin - Black
	Cable Bushing	Thermoplastic Polyurethane
	Contacts / Plating	Brass /Ag or Au over 2µm Ni

<sup>1)</sup> Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.


**Features:**

- Mono or Stereo (TRS).
- Stylish shell design.
- Robust diecast shell in Satin nickel or Black finish.
- Silver or Gold contact plating.
- Flexible grommet cable protection.
- Improved solderability.
- Precision machined contacts.
- Convenient bulk packaging as standard.

**Options:** Black Shell, Gold contacts.

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		1/4" (6.35mmø) Mono Phone plug, Diecast Shell, Satin finish, Flexible grommet.  (Supplied in Bulk pack of 100 only)	Standard	ACPM-GN BULK	
			Gold Plated Contacts	ACPM-GN-AU BULK	
		1/4" (6.35mmø) Mono Phone plug, Diecast Shell, Black finish, Flexible grommet.  (Supplied in Bulk pack of 100 only)	Standard	ACPM-GB BULK	
			Gold Plated Contacts	ACPM-GB-AU BULK	
		1/4" (6.35mmø) Stereo Phone plug, Diecast Shell, Satin finish, Flexible grommet.  (Supplied in Bulk pack of 100 only)	Standard	ACPS-GN BULK	
			Gold Plated Contacts	ACPS-GN-AU BULK	
		1/4" (6.35mmø) Stereo Phone plug, Diecast Shell, Black finish, Flexible grommet.  (Supplied in Bulk pack of 100 only)	Standard	ACPS-GB BULK	
			Gold Plated Contacts	ACPS-GB-AU BULK	
		1/4" (6.35mmø) Phone plug, Right Angle, Machined shell, Nickel finish	Mono	ACPM - MRN	
			Stereo	ACPS - MRN	
		1/4" (6.35mmø) Phone Jack, Horizontal Snap-fit PCB, Plastic housing, Metal nut and entry bore	Mono	ACJM - MHDR	
			Stereo	ACJS - MHDR	



PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	TYPE	PART NUMBER
		Dimensions in mm (inches) 1/4" (6.35mmø) Dual Phone Jack (Piggyback) Horizontal Snap-fit PCB, Plastic housing, Metal nut and entry bore	1/4" (6.35mmø) Dual Phone Jack (Piggyback) Horizontal Snap-fit PCB, Plastic housing, Metal nut and entry bore	Mono	ACJM - MHD
				Stereo	ACJS - MHD
		Dimensions in mm (inches) 1/4" (6.35mmø) Jack, Horizontal PCB mount, Plastic housing with metal insert	1/4" (6.35mmø) Jack, Horizontal PCB mount, Plastic housing with metal insert	Mono - Plastic Nut	ACJM - PH
				Mono - Metal Nut	ACJM - MH
		Dimensions in mm (inches) 1/4" (6.35mmø) Jack, Horizontal PCB mount, Plastic housing with metal insert	1/4" (6.35mmø) Jack, Horizontal PCB mount, Plastic housing with metal insert	Stereo - Plastic Nut	ACJS - PH
				Stereo - Metal Nut	ACJS - MH
		Dimensions in mm (inches) 1/4" (6.35mmø) Jack, Horizontal Snap-fit PCB mount, Plastic housing with metal insert	1/4" (6.35mmø) Jack, Horizontal Snap-fit PCB mount, Plastic housing with metal insert	Mono - Plastic Nut	ACJM-PHR
				Mono - Metal Nut	ACJM-MHR
				Stereo - Plastic Nut	ACJS-PHR
				Stereo - Metal Nut	ACJS-MHR
		Dimensions in mm (inches) 1/4" (6.35mmø) Jack, Combination Horizontal PCB and Solder lug, Plastic housing with metal insert	1/4" (6.35mmø) Jack, Combination Horizontal PCB and Solder lug, Plastic housing with metal insert	Mono - Plastic Nut	ACJM - PC
				Mono - Metal Nut	ACJM - MC
				Stereo - Plastic Nut	ACJS - PC
				Stereo - Metal Nut	ACJS - MC
		Dimensions in mm (inches) 1/4" (6.35mmø) Jack, Solder Lug, Plastic housing with metal insert	1/4" (6.35mmø) Jack, Solder Lug, Plastic housing with metal insert	Mono - Plastic Nut	ACJM-PHS
				Mono - Metal Nut	ACJM-MHS
				Stereo - Plastic Nut	ACJS-PHS
				Stereo - Metal Nut	ACJS-MHS
		Refer circuit schematic chart page 74	1/4" (6.35mmø) Jack, Vertical PCB mount, Needle eye contacts, Star washer, Metal nut and insert	ACJM-MN-2 ACJS-MN-3 ACJM-MN-2S ACJS-MN-3S ACJS-MN-5	ACJM-MN-2 ACJS-MN-3 ACJM-MN-2S ACJS-MN-3S ACJS-MN-5
		Dimensions in mm (inches) 1/4" (6.35mmø) Jack, Vertical PCB mount, Metal nut and insert	1/4" (6.35mmø) Jack, Vertical PCB mount, Metal nut and insert	Mono	ACJM-MV
				Stereo	ACJS-MV
		Dimensions in mm (inches) 1/4" (6.35mmø) Jack, Solder lugs, Metal nut and insert	1/4" (6.35mmø) Jack, Solder lugs, Metal nut and insert	Mono	ACJM-MS
				Stereo	ACJS-MS

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	TYPE	PART NUMBER
		46 [1.811"] Ø14.0 [Ø5.51"]	RCA Male plug, Gold finish	Red	AC-RCAMR-AU
			Max cable O.D 6mm (0.236")	Black	AC-RCAMB-AU
		38 [1.496"] Ø14.0 [Ø5.51"]	RCA Female plug, Gold finish	Red	AC-RCAFRAU
			Max cable O.D 6mm (0.236")	Black	AC-RCAFBAU
		16.3 [.642"] 29.6 [1.165"] 40.5 [1.594"] 21.5 [.846"] 19.0 [.748"]	Banana Plug – Dual, Plastic housing, Nickel plated contacts	Red	AC-BPD-R
			Max cable O.D 5mm (0.196")	Black	AC-BPD-B
		16.3 [.642"] 29.6 [1.165"] 40.5 [1.594"] 21.5 [.846"] 19.0 [.748"]	Banana Plug – Dual, Plastic housing, Gold plated contacts	Red	AC-BPD-R-AU
			Max cable O.D 5mm (0.196")	Black	AC-BPD-B-AU

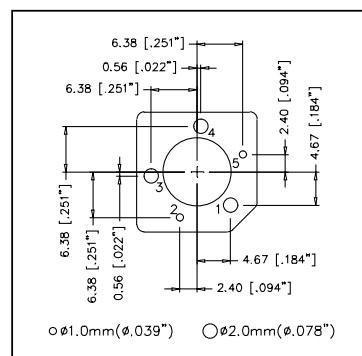
## PANEL CUTOUTS

### -FRONT VIEW

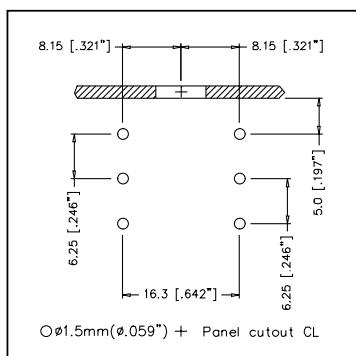
	ACJM-MV ACJS-MV ACJM-MS ACJS-MS ACJM-MN-2 ACJS-MN-3 ACJM-MN-2S ACJS-MN-3S ACJS-MN-5
	ACJM/S-PH ACJM/S-MH ACJM/S-PC ACJM/S-MC ACJM/S-PHR ACJM/S-MHR ACJM/S-PHS ACJM/S-MHS
	ACJM-MHD ACJS-MHD
	ACJM-MHDR ACJS-MHDR

## PCB FOOTPRINT

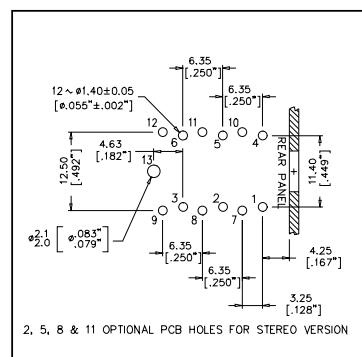
### -CONNECTOR SIDE OF PCB



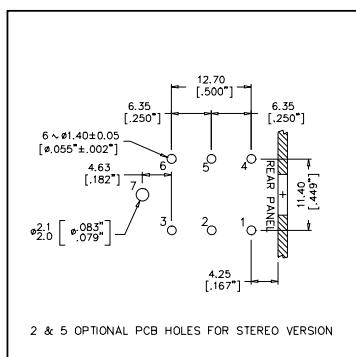
ACJM-MV  
ACJS-MV  
ACJM-MN-2  
ACJS-MN-3  
ACJM-MN-2S  
ACJS-MN-3S  
ACJS-MN-5



ACJM-PH  
ACJM-MH  
ACJS-PH  
ACJM-MH  
ACJM-MC  
ACJS-PC  
ACJS-MC  
ACJM-PHR  
ACJM-MHR  
ACJS-PHR  
ACJS-MHR



ACJM-MHD  
ACJS-MHD



ACJM-MHDR  
ACJS-MHDR

## SCHEMATIC CHART

PART No.	ACJM-MN-2	ACJM-MN-2S	ACJS-MN-3	ACJS-MN-3S	ACJS-MN-5
SCHEMATIC					



## MULTIPIN CONNECTORS

Amphenol has an extensive range of circular and rectangular multi-pin connectors ideally suited to the entertainment industry. Featuring rugged housings and precision made contacts these connectors have proven themselves in the most demanding of applications. The extensive arrangement of different connector sizes and contact numbers ensure we can offer a solution to your multi-pin wiring applications.

### Applications

- Audio Cables and Snakes
- Lighting control
- Concert Touring Systems
- Outside Broadcast Systems

### Features / Options - MP-41 Series

- 13 to 200 pins
- Gold plated crimp contacts
- Synthetic inserts
- Environmental resistant
- Positive Bayonet locking
- PG cable gland

### Features / Options - MP-62 Series

- 39 or 61 pins
- Gold plated solder contacts
- Neoprene inserts
- Environmental resistant
- Positive Bayonet locking
- PG cable gland

### Features / Options - Socapex™

- 19 pin
- Gold plated machined solder contacts
- Closed entry socket contacts

- Two part backshell ensures simple wiring and maintenance
- Thermoset inserts
- Adaptable capacity cable clamp

### Features / Options - C146 Series Rectangular

- 3 to 244 pins
- Silver contact plating
- Zinc diecast aluminium housings
- Positive latch locking

Request catalogue CAT-AMPHENOL359

### Ordering Codes

We have listed the more common ordering codes in each section. For further options please contact us.

### 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 pins column to determine number of contacts.
- 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.





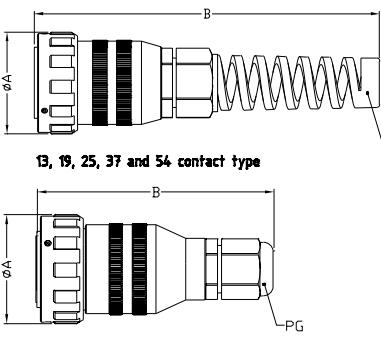
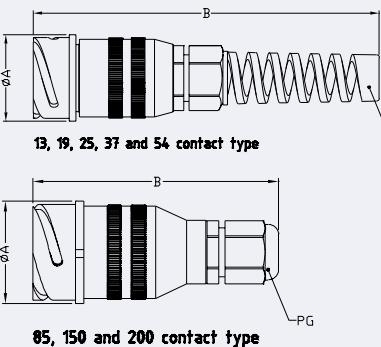
Amphenol's MP-41 series of multipin connectors utilise the same design principals of the rugged Mil-C-5015 military connectors. They can withstand high shock and vibration environments and are ideal for tough on-road applications. Featuring a quick mating bayonet coupling with an audible full mating feature ensures a positive connection every time. Available from 13 to 200 pins with gold plated crimp contacts supplied with each connector as standard.

**Features:**

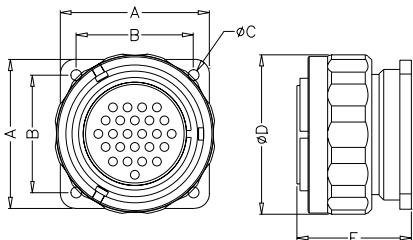
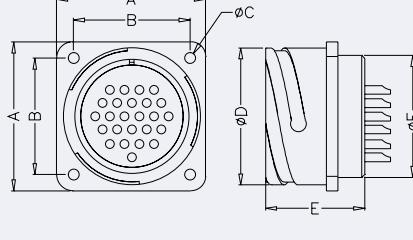
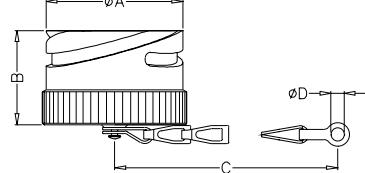
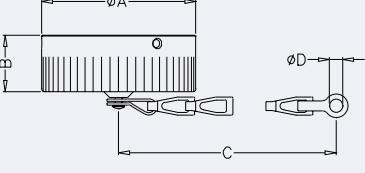
- 13 to 200 pins (4 to 66 channel)
- Gold plated crimp contacts
- Synthetic insert
- Protective dust caps
- Industry standard compatible
- Environmental resistant
- Black finish
- Positive bayonet locking
- PG cable glands
- IP67 rated

**Options:** Solder contacts available as a special. [Crimp Tooling: Page 78](#)

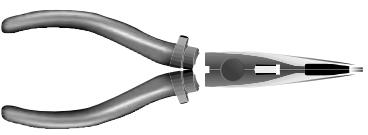
**Specifications:** [Page 79](#)    **Part Number Breakdown:** [Page 78](#)

PRODUCT - FIGURE	Dimensions in mm (inches) DRAWING	Dimensions in mm (inches)			PINS	PART NUMBER
		A	B	PG		
	<p>Straight cable plug with socket contacts, Black finish, supplied complete with gold plated crimp contacts.</p>  <p>13, 19, 25, 37 and 54 contact type</p> <p>85, 150 and 200 contact type</p>	39.9 (1.57)	160 (6.30)	11	13	MP-4106-13S
		43.1 (1.69)	171 (6.73)	13.5	19	MP-4106-19S
		46.6 (1.83)	193 (7.60)	16	25	MP-4106-25S
		53.4 (2.10)	210 (8.26)	21	37	MP-4106-37S
		60.1 (2.36)	210 (8.26)	21	54	MP-4106-54S
		72.4 (2.85)	137 (5.40)	29	85	MP-4106-85S
		72.4 (2.85)	145 (5.70)	36	150	MP-4106-150S
		72.4 (2.85)	145 (5.70)	36	200	MP-4106-200S
	<p>Cable connecting receptacle with pin contacts, Black finish, supplied complete with gold plated crimp contacts.</p>  <p>13, 19, 25, 37 and 54 contact type</p> <p>85, 150 and 200 contact type</p>	37.5 (1.47)	160 (6.30)	11	13	MP-4101-13P
		40.5 (1.59)	171 (6.73)	13.5	19	MP-4101-19P
		41.5 (1.63)	193 (7.60)	16	25	MP-4101-25P
		50 (1.96)	210 (8.26)	21	37	MP-4101-37P
		56.5 (2.22)	210 (8.26)	21	54	MP-4101-54P
		69 (2.71)	137 (5.40)	29	85	MP-4101-85P
		69 (2.71)	145 (5.70)	36	150	MP-4101-150P
		69 (2.71)	145 (5.70)	36	200	MP-4101-200P



PRODUCT - FIGURE	Dimensions in mm (inches) DRAWING	Dimensions in mm (inches)						PINS	PART NUMBER
		A	B	C	D	E	F		
	<p>Panel plug with socket contacts, Black finish, supplied complete with gold plated crimp contacts.</p> 	38 (1.49)	29.4 (1.15)	3.2 (0.13)	42.16 (1.66)	38.1 (1.5)	N/A	13	MP-4164-13S
		41 (1.61)	31.8 (1.25)	3.2 (0.13)	44.95 (1.77)	38.1 (1.5)	N/A	19	MP-4164-19S
		44.5 (1.75)	34.9 (1.37)	3.73 (0.14)	48.51 (1.91)	40.6 (1.60)	N/A	25	MP-4164-25S
		50.8 (1.99)	39.7 (1.56)	3.73 (0.14)	52.9 (2.09)	41.3 (1.67)	N/A	37	MP-4164-37S
		57 (2.24)	44.5 (1.75)	4.39 (0.17)	61.97 (2.44)	44.7 (1.76)	N/A	54	MP-4164-54S
		69.8 (2.74)	55.5 (2.18)	4.39 (0.17)	73.91 (2.91)	44.7 (1.76)	N/A	85	MP-4164-85S
		69.8 (2.74)	55.5 (2.18)	4.39 (0.17)	73.91 (2.91)	44.7 (1.76)	N/A	150	MP-4164-150S
		69.8 (2.74)	55.5 (2.18)	4.39 (0.17)	73.91 (2.91)	44.7 (1.76)	N/A	200	MP-4164-200S
		38 (1.49)	29.4 (1.15)	3.05 (0.12)	34.2 (1.34)	34.5 (1.35)	29 (1.14)	13	MP-4102-13P
		41 (1.61)	31.8 (1.25)	3.05 (0.12)	37.4 (1.47)	34.5 (1.35)	32.2 (1.26)	19	MP-4102-19P
	<p>Panel receptacle with pin contacts, Black finish, supplied complete with gold plated crimp contacts.</p> 	44.5 (1.75)	34.9 (1.37)	3.73 (0.14)	40.9 (1.61)	35.7 (1.40)	35.3 (1.38)	25	MP-4102-25P
		50.8 (1.99)	39.7 (1.56)	3.73 (0.14)	46.7 (1.83)	35.7 (1.40)	41.4 (1.62)	37	MP-4102-37P
		57 (2.24)	44.5 (1.75)	4.39 (0.17)	53.4 (2.10)	37.3 (1.46)	47.8 (1.88)	54	MP-4102-54P
		69.8 (2.74)	55.5 (2.18)	4.39 (0.17)	65.5 (2.57)	37.3 (1.46)	59 (2.32)	85	MP-4102-85P
		69.8 (2.74)	55.5 (2.18)	4.39 (0.17)	65.5 (2.57)	37.3 (1.46)	59 (2.32)	150	MP-4102-150P
		69.8 (2.74)	55.5 (2.18)	4.39 (0.17)	65.5 (2.57)	37.3 (1.46)	59 (2.32)	200	MP-4102-200P
		40.5 (1.59)	33 (1.29)	127 (4.99)	4.7 (0.18)	-	-	13	MP-25042-13
		43.50 (1.71)	33 (1.29)	127 (4.99)	4.70 (0.18)	-	-	19	MP-25042-19
		46.5 (1.83)	44 (1.73)	140 (5.51)	4.7 (0.18)	-	-	25	MP-25042-25
		54 (2.12)	33 (1.29)	197 (7.75)	5.6 (0.22)	-	-	37	MP-25042-37
	<p>Plug protective dustcap to suit MP-4106 type and MP-4164 type.</p> 	60 (2.36)	46 (1.81)	197 (7.75)	5.6 (0.22)	-	-	54	MP-25042-54
		73 (2.87)	33 (1.29)	197 (7.75)	5.6 (0.22)	-	-	85	MP-25042-85
		73 (2.87)	33 (1.29)	197 (7.75)	5.6 (0.22)	-	-	150	MP-25042-85
		73 (2.87)	33 (1.29)	197 (7.75)	5.6 (0.22)	-	-	200	MP-25042-85
		40.5 (1.59)	21.2 (0.83)	127 (4.99)	4.7 (0.18)	-	-	13	MP-25043-13
		43.5 (1.71)	21.20 (0.83)	127 (4.99)	4.7 (0.18)	-	-	19	MP-25043-19
		47 (1.85)	21.2 (0.83)	140 (5.51)	4.7 (0.18)	-	-	25	MP-25043-25
		54 (2.12)	21.2 (0.83)	197 (7.75)	5.6 (0.22)	-	-	37	MP-25043-37
		60.5 (2.38)	21.2 (0.83)	197 (7.75)	5.6 (0.22)	-	-	54	MP-25043-54
		73 (2.87)	21.2 (0.83)	197 (7.75)	5.6 (0.22)	-	-	85	MP-25043-85
	<p>Receptacle protective dustcap to suit MP-4101 and MP-4102 types</p> 	73 (2.87)	21.2 (0.83)	197 (7.75)	5.6 (0.22)	-	-	150	MP-25043-85
		73 (2.87)	21.2 (0.83)	197 (7.75)	5.6 (0.22)	-	-	200	MP-25043-85
		73 (2.87)	21.2 (0.83)	197 (7.75)	5.6 (0.22)	-	-	200	MP-25043-85



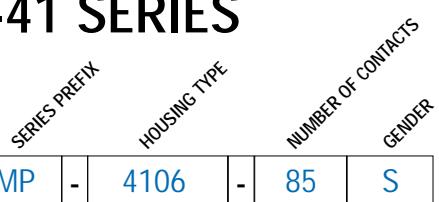
PRODUCT - FIGURE	DRAWING	DESCRIPTION	NO. OF PINS	PART NUMBER
	NOT APPLICABLE	Crimp Tool	All	M22520/1-01
	NOT APPLICABLE	Positioner / Turret	13-85	TH29-1
			150	ON REQUEST
			200	ON REQUEST
	NOT APPLICABLE	Insertion tool	13-85	MP-INS-16
			150	ON REQUEST
			200	ON REQUEST
	NOT APPLICABLE	Extraction tool	13-85	MP-EXT-16
			150	ON REQUEST
			200	ON REQUEST
	NOT APPLICABLE	Contact Pilot Pin	13-85	10-242758-16
	NOT APPLICABLE	Pin Contact	Crimp size 16	MP-108295
	NOT APPLICABLE	Socket Contact	Crimp size 16	MP-108457

**NOTE:** Complete instructions for providing reliable crimped wire to contact terminations and inserting proprietary crimp contacts in MP-41 Series connectors are available in publication PI523 located on our website [www.amphenol.com.au](http://www.amphenol.com.au).

## PART NUMBER BREAKDOWN MP-41 SERIES

### MULTIPIN CIRCULAR CONNECTORS

E. G. **MP-4106-85S**  
Multipin, 4106 Cable Plug, 85 Contacts, S Female Socket Contacts,



SERIES PREFIX	MP	=	Series Prefix
HOUSING TYPE	4101	=	Inline cable connecting receptacle
	4102	=	Panel receptacle
	4106	=	Cable plug
	4164	=	Panel plug
	25042	=	Dustcap for plug
	25043	=	Dustcap for receptacle
NO. OF CONTACTS	13, 19, 25, 37, 54, 85, 150, 200		
GENDER	P	=	Male pin contacts
	S	=	Female socket contacts

## STANDARD DATA MP-41 SERIES

	VALUE								
GENERAL CHARACTERISTICS	Number of contacts	13	19	25	37	54	85	150	200
	Number of channels	4	6	8	12	16	28	48	66
	Termination	Crimp							
	Wire Gauge - Stranded Wire	16AWG						18AWG	20AWG
ELECTRICAL CHARACTERISTICS	Operating Voltage at Sea level - DC	250V*						250V*	250V*
	Operating Voltage at Sea level - AC	200V*						200V*	200V*
	Test Voltage AC RMS	1000V						1000V	1000V
	Current Carrying Capacity	13A						7.5A	7.5A
	Typical Contact Resistance	3.46mΩ						11.25mΩ	11.25mΩ
	Insulation Resistance	3.46mΩ						11.25mΩ	11.25mΩ
CLIMATIC CHARACTERISTICS	Protection Class	IP67 (when mated)							
	Operating Temperature	-55°C to +125°C (-67°F to +257°F)							
MECHANICAL CHARACTERISTICS	Cable Retention	PG Gland							
	Mechanical Operations	500 mating cycles							
MATERIALS	Connector / Shell Finish	Aluminium Alloy / Black							
	Insert	Synthetic Insert to MIL-R-3065							
	Male pin contact / Plating	Brass / Gold flash plated							
	Female socket contact / Plating	Brass / Gold flash plated							
CLAMPING CHARACTERISTICS	PG Gland	11	13.5	16	21	29	36		
	Cable Clamping range mm (inches)	4-10 (0.15"- 0.39")	5-12 (0.19"- 0.47")	9-14 (0.35"- 0.55")	13-18 (0.51"- 0.70")	14-25 (0.55"- 0.98")	19-32 (0.74"- 1.25")		

\*Not suitable for domestic applications above 50V





Amphenol's Multipin MP-62 series of circular connectors utilise the same design principles of the Mil-C-26482 military connectors. Featuring a three point quick mating bayonet coupling and five key polarisation ensuring a positive connection every time. Available in two contact pin layouts 39 and 61 with gold plated solder contacts fitted as standard.

**Features:**

- 39 or 61 pins.
- Gold plated solder contacts.
- Neoprene insert.
- Protective dust caps
- Environmental resistant.
- Black finish.
- Positive bayonet locking
- PG cable glands

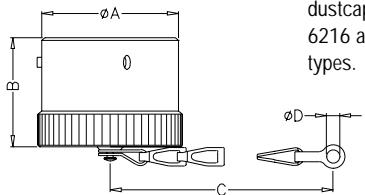
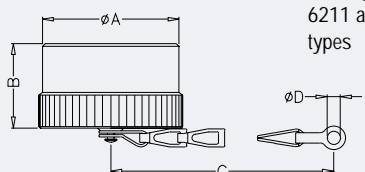
**Specifications:** Page 81

**Wiring Info:** Page 89

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	Dimensions in mm (inches)			PINS	PART NUMBER
			A	B	PG		
Straight cable plug with pin contacts, Black finish, Gold plated solder contacts.			38.9 (1.53)	181.5 (7.15)	16	39	MP-6216-39P
			45.2 (1.78)	183.8 (7.24)	16	61	MP-6216-61P
Cable connecting receptacle with socket contacts, Black finish, Gold plated solder contacts.			36.7 (1.45)	181.5 (7.15)	16	39	MP-6211-39S
			43.0 (1.70)	183.8 (7.24)	16	61	MP-6211-61S

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	Dimensions in mm (inches)						PINS	PART NUMBER
			A	B	C	D	E	F		
Panel plug with pin contacts, Black finish, Gold plated solder contacts.			On Request						39	MP-6256-39P
			On Request						61	MP-6256-61P
Panel receptacle plug with socket contacts, Black finish, Gold plated solder contacts.			36.7 (1.44)	29.36 (1.15)	3.05 (0.12)	31.8 (1.25)	22.3 (0.87)	30.1 (1.18)	39	MP-6212-39S
			43.0 (1.69)	34.93 (1.38)	3.74 (0.15)	38.1 (1.50)	22.3 (0.87)	36.4 (1.43)	61	MP-6212-61S



PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	Dimensions in mm (inches)				PINS	PART NUMBER
			A	B	C	D		
		Plug protective dustcap to suit MP-6216 and MP-6256 types.	40.50 (1.59)	33 (1.29)	127 (4.99)	4.70 (0.18)	39	MP-742-39
			43.50 (1.71)	33 (1.29)	127 (4.99)	4.70 (0.18)	61	MP-742-61
		Receptacle protective dustcap to suit MP-6211 and MP-6212 types	40.50 (1.59)	21.20 (0.83)	127 (4.99)	4.70 (0.18)	39	MP-738-39
			43.50 (1.71)	21.20 (0.83)	127 (4.99)	4.70 (0.18)	61	MP-738-61

## STANDARD DATA MP-62 SERIES

		VALUE
GENERAL CHARACTERISTICS	Number of contacts	39
	Number of channels	12
	Termination	Solder
	Wire Gauge - Stranded Wire	37 x 24AWG-20AWG 2 x 20AWG-16AWG
		24AWG-20AWG
ELECTRICAL CHARACTERISTICS	Operating Voltage at Sea level - DC	600V*
	Operating Voltage at Sea level - AC	600V*
	Test Voltage AC RMS	1500V
	Current Carrying Capacity	37 x 7.5A 2 x 13A
	Insulation Resistance	5000MΩ
CLIMATIC CHARACTERISTICS	Protection Class	IP67 (when mated)
	Operating Temperature	-55°C to +125°C (-67°F to +257°F)
MECHANICAL CHARACTERISTICS	Cable Retention	PG Gland
	Mechanical Operations	500 mating cycles
MATERIALS	Connector / Shell Finish	Aluminium Alloy / Black
	Insert	Neoprene
	Male pin contact machined - Plating	Brass / Gold flash plated
	Female socket contact machined - Plating	Brass / Gold flash plated
CLAMPING CHARACTERISTICS	PG Gland	Brass / Gold flash plated
	Cable Clamping range mm (inches)	9-14 (0.35-0.55)

\*Not suitable for domestic applications above 50V





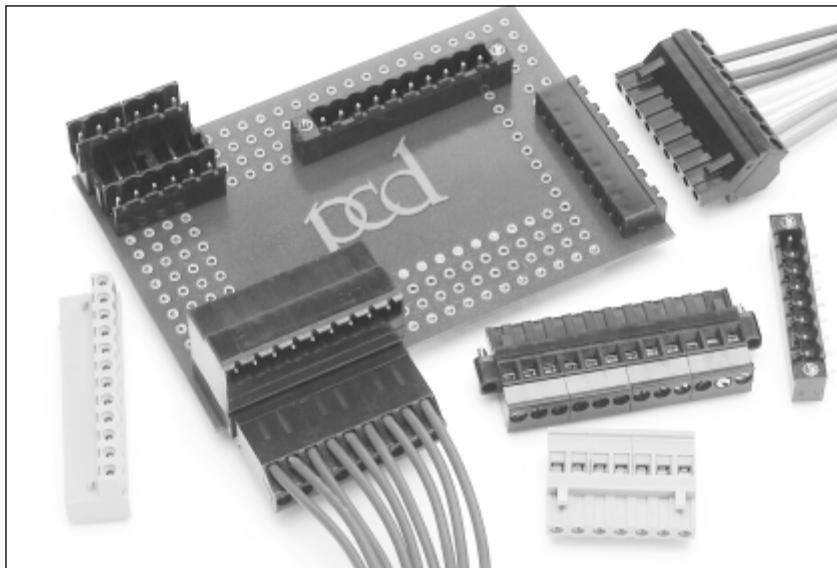
Amphenol is the original manufacturer of the Socapex™ connector which is now accepted as the worldwide standard in the Lighting industry. A reliable "closed entry" socket contact design prevents any misalignment into the female insert even when the terminations are placed under stress by the cable. The housings are manufactured of aluminum alloy which provides excellent reliability and robustness. Please contact us for availability on other contact options.

**Features:**

- 19 pin
- Gold plated machined solder contacts.
- Closed entry socket contacts.
- Two part backshell ensures simple wiring and maintenance.
- Thermoset inserts.
- Adaptable capacity cable clamp

PRODUCT - FIGURE	DRAWING	DESCRIPTION	PART NUMBER
		Cable Plug, 19 pin contacts, Thermoset insert Supplied with 3 sets of cable clamp adaptors: G. Dia. : 14-18mm 19-24mm 24-30mm	<a href="#">SLFMD419AR</a>
		Inline Socket receptacle, 19 socket contacts, Thermoset insert Supplied with 3 sets of cable clamp adaptors: G. Dia. : 14-18mm 19-24mm 24-30mm	<a href="#">SLFFDR419AR</a>
		Panel plug, 19 pin contacts, Thermoset insert	<a href="#">SLEME419AR</a>
		Panel receptacle, 19 socket contacts, Thermoset insert	<a href="#">SLEF419AR</a>





## ELF SERIES PLUG AND HEADER SYSTEMS

Amphenol PCD ELF line comprises a family of durable pluggable terminal blocks and headers on 5mm (.197") spacing that provide flexible wire-to-board interconnect solutions for a wide variety of applications. ELF design and materials include numerous features and advantages which combine to make this the most advanced pluggable block available. The ELF family is UL, CSA and TUV recognised.

ELF series plugs mate with ELF series headers, and accommodate competitive headers as well. The moving vise clamp ensures high-reliability wire termination by providing a direct, high-pressure connection between contact and wire. Precision molded housings allow wire termination while the connector is either plugged or unplugged.

Please visit [www.amphenolpcd.com](http://www.amphenolpcd.com) to view the complete Amphenol PCD terminal line.

### Features / Options ELFA Series

- Two tier aligned
- Increase board density
- Precision molded in high temperature polyamide
- Smooth mating / unmating
- Easy screwdriver separation

[Request catalogue CAT-AMPHENOL801](#)

### Ordering Codes

We have listed the more common ordering codes in each section. Please contact us if you need any further assistance.

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

- 1) Identify the product group listed in Contents on Page 1 and go directly to that page number.
- 2) Each product group cover page then details information and options available.
- 3) Refer to the product detail pages and identify the product you require pictorially.
- 4) Read the product description column for the products standard features.
- 5) Use pins column to determine number of contacts.
- 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 / Options ELFP / ELFF Series

- ELFP feature wire entry parallel to contact and mating direction
- ELFF "front-front" feature wire insertion and screw actuation from the front of the plug
- High reliability wire termination
- Smooth mating / unmating
- High performance materials
- Wiring while engaged
- Easy screwdriver separation

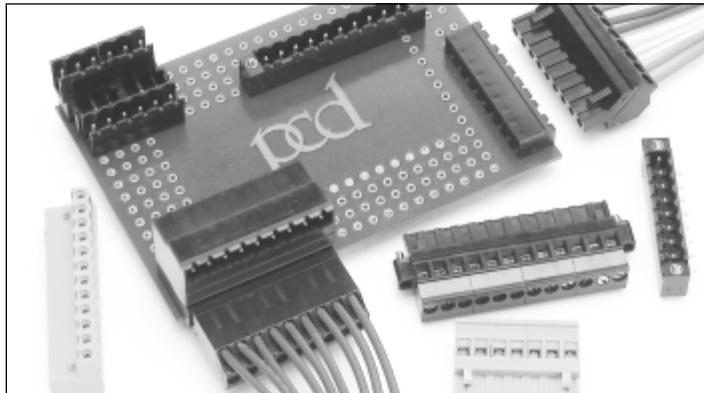
### Features / Options ELFH Series

- Precision molded from tough, stable PBT
- Smooth mating / unmating
- Easy screwdriver separation

# Amphenol

PLUG AND HEADER SYSTEMS

## ELF SERIES



### Features:

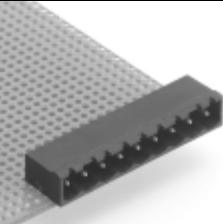
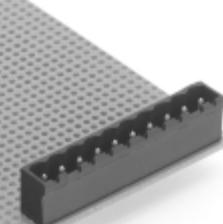
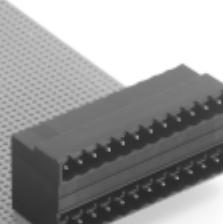
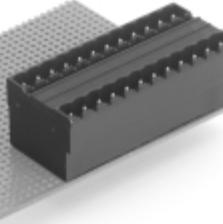
- High reliability wire termination
- Smooth mating / unmating
- High performance materials
- Black housings
- Wiring while engaged
- Easy screwdriver separation
- Contact us for positions not listed below
- Custom marking and polarising keys available on request

**Specifications: Page 86**

PRODUCT - FIGURE	DRAWING	DESCRIPTION	POS.	L DIMENSIONS mm (inches)	PART NUMBER
		ELFP Right angle plug, 5.0mm (.197") pitch, Black.	2	10 (0.39)	ELFP02110
			3	15 (0.59)	ELFP03110
			4	20 (0.78)	ELFP04110
			5	25 (0.98)	ELFP05110
			6	30 (1.18)	ELFP06110
			8	40 (1.57)	ELFP08110
			10	50 (1.96)	ELFP10110
			12	60 (2.36)	ELFP12110
			16	80 (3.14)	ELFP16110
			20	100 (3.93)	ELFP20110
			24	120 (4.72)	ELFP24110
		ELFF Top entry plug, 5.0mm (.197") pitch, Black.	2	10 (0.39)	ELFF02130
			3	15 (0.59)	ELFF03130
			4	20 (0.78)	ELFF04130
			5	25 (0.98)	ELFF05130
			6	30 (1.18)	ELFF06130
			8	40 (1.57)	ELFF08130
			10	50 (1.96)	ELFF10130
			12	60 (2.36)	ELFF12130
			16	80 (3.14)	ELFF16130
			20	100 (3.93)	ELFF20130
			24	120 (4.72)	ELFF24130



## ELF SERIES

PRODUCT - FIGURE	DRAWING	DESCRIPTION	L (inches)	POS.	PART NUMBER
	<p>ELFH Horizontal – closed header, 5.0mm (.197") pitch, Black.</p>		10 (0.39)	2	ELFH02110
			15 (0.59)	3	ELFH03110
			20 (0.78)	4	ELFH04110
			25 (0.98)	5	ELFH05110
			30 (1.18)	6	ELFH06110
			40 (1.57)	8	ELFH08110
			50 (1.96)	10	ELFH10110
			60 (2.36)	12	ELFH12110
			80 (3.14)	16	ELFH16110
			100 (3.93)	20	ELFH20110
			120 (4.72)	24	ELFH24110
	<p>ELFH Vertical – closed header, 5.0mm (.197") pitch, Black.</p>		10 (0.39)	2	ELFH02150
			15 (0.59)	3	ELFH03150
			20 (0.78)	4	ELFH04150
			25 (0.98)	5	ELFH05150
			30 (1.18)	6	ELFH06150
			40 (1.57)	8	ELFH08150
			50 (1.96)	10	ELFH10150
			60 (2.36)	12	ELFH12150
			80 (3.14)	16	ELFH16150
			100 (3.93)	20	ELFH20150
			120 (4.72)	24	ELFH24150
	<p>ELFA Horizontal header, 2-Tier aligned, 5.0mm (.197") pitch, Black.</p>		12 (0.47)	4	ELFA04110
			17 (0.66)	6	ELFA06110
			22 (0.86)	8	ELFA08110
			27 (1.06)	10	ELFA10110
			32 (1.26)	12	ELFA12110
			42 (1.65)	16	ELFA16110
			52 (2.04)	20	ELFA20110
			62 (2.44)	24	ELFA24110
	<p>ELFA Vertical header, 2-Tier aligned, 5.0mm (.197") pitch, Black.</p>		12 (0.47)	4	ELFA04150
			17 (0.66)	6	ELFA06150
			22 (0.86)	8	ELFA08150
			27 (1.06)	10	ELFA10150
			32 (1.26)	12	ELFA12150
			42 (1.65)	16	ELFA16150
			52 (2.04)	20	ELFA20150
			62 (2.44)	24	ELFA24150

## STANDARD DATA ELF SERIES

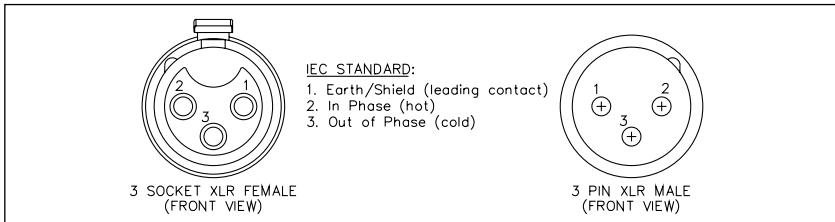
		VALUE					
GENERAL CHARACTERISTICS	Series	ELFP	ELFF	ELFH	ELFA		
	Termination	Screw		PCB			
	Wire Gauge	12-26 AWG		Not Applicable			
	Wire Strip Length	7.87mm (.310) (14-26 AWG)	7.87mm (.310) (12.44mm (.490) (12 AWG)	Not Applicable			
	Hole Diameter	Not Applicable		1.40mm (.055) min.			
ELECTRICAL CHARACTERISTICS	Operating Voltage	300V					
	Dielectric Withstanding	<3000V					
	Current Carrying Capacity	15A					
	Insulation Resistance	>10 <sup>5</sup> MΩ					
CLIMATIC CHARACTERISTICS	Operating Temperature	105°C (221°F) max					
MECHANICAL CHARACTERISTICS	Wire Pullout Force	Per UL 486E, Section 14		Not Applicable			
	Recommended Tightening Torque	0.79N·m (7lb-in.)		Not Applicable			
MATERIALS	Housing (Black)	PPO, UL 94V-0		PBT, UL 94V-0	PA 46, UL 94V-0		
	Contact / Finish	Copper Alloy / Tin-Lead					
	Clamp Screw / Finish	Steel / Nickel		Not Applicable			
	Wire Clamp / Finish	Copper Alloy / Nickel		Not Applicable			



# Amphenol

## CONNECTOR WIRING INFORMATION

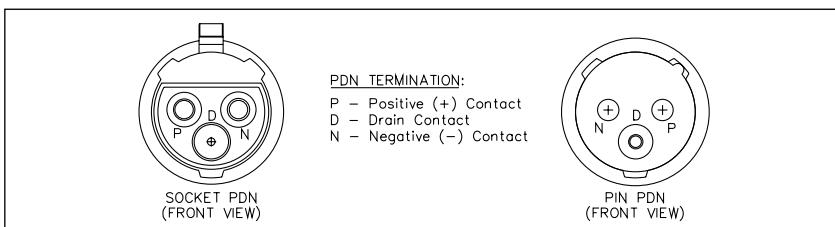
### XLR (Microphone / Patch Cables)



The standard XLR 3 contact pin outs are as shown above for a balanced lead. In such a configuration audio "Hot" (pin 2) is the in-phase connection whilst audio "Cold" (pin 3) is the out-of-phase connection. For an unbalanced lead however, you may connect pin 1 to either pin 2 or pin 3, but not both. In such a configuration the remaining pin is used for the audio signal.

When terminating the cable shielding to pin 1 it is suggested that the shield be only grounded at one end of the cable to avoid inducing "hum". Pin 1 is a leading contact that engages at interconnection, before pin 2 or pin 3.

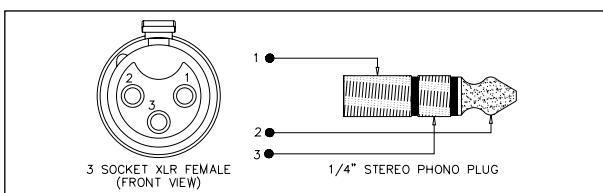
### PDN (Speaker Cables)



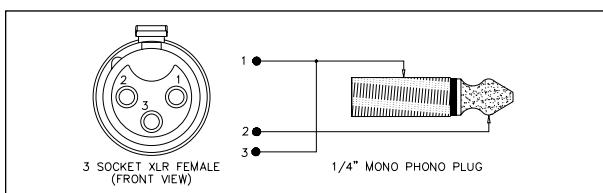
The PDN stands for Positive, Drain and Negative. P pin is used for the Positive (+) line and the N pin is for the return line. D pin is a leading contact that engages at interconnection, before the major contacts. If applicable, solder the cable screen to this contact.

### 1/4" Phono (6.35mm) (Standard Applications)

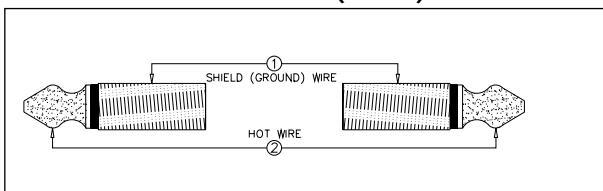
#### MICROPHONE CABLE - BALANCED



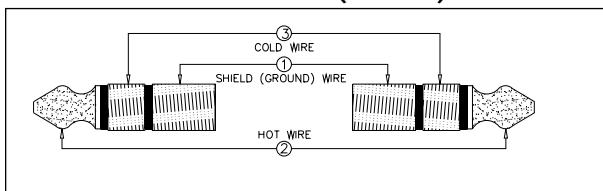
#### MICROPHONE CABLE - UNBALANCED



#### INSTRUMENT / LINE CABLE (MONO)



#### INSTRUMENT / LINE CABLE (STEREO)



# Amphenol

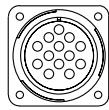
## CONNECTOR WIRING INFORMATION

### Multipin Cables

#### MP-41 Series

4 Ch – 13 pin

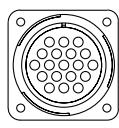
Ch	+	-	G
1	B	C	E
2	F	K	H
3	J	D	A
4	N	M	G
General			
Ground	L		



#### MP-41 Series

6 Ch – 19 pin

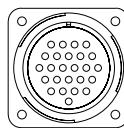
Ch	+	-	G
1	L	M	U
2	A	N	B
3	K	J	T
4	B	P	C
5	H	S	G
6	R	D	E
General			
Ground	F		



#### MP-41 Series

8 Ch – 25 pin

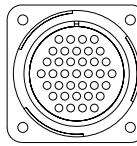
Ch	+	-	G
1	A	E	F
2	G	C	B
3	D	H	J
4	M	L	K
5	Q	P	N
6	W	S	R
7	T	X	Y
8	Z	V	U
General			
Ground	a		



#### MP-41 Series

12 Ch – 37 pin

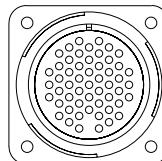
Ch	+	-	G
1	E	F	A
2	B	C	G
3	H	J	D
4	S	T	K
5	L	M	U
6	V	W	N
7	P	R	X
8	a	b	g
9	c	d	j
10	e	f	m
11	n	p	h
12	r	s	k
General			
Ground	z		



#### MP-41 Series

16 Ch – 54 pin

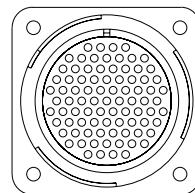
Ch	+	-	G
1	W	f	r
2	J	R	a
3	k	v	AC
4	E	M	V
5	e	q	y
6	B	H	P
7	Z	j	u
8	D	L	U
9	d	p	x
10	A	G	O
11	Y	h	t
12	C	K	T
13	c	n	w
14	F	N	X
15	g	s	AB
16	S	b	m
General			
Ground	AG		



#### MP-41 Series

28 Ch – 85 pin

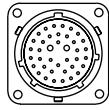
Ch	+	-	G
1	A	B	C
2	E	F	H
3	J	K	L
4	N	P	R
5	S	T	U
6	X	Y	Z
7	a	b	c
8	d	f	g
9	h	i	j
10	k	m	n
11	p	q	r
12	t	u	v
13	w	x	y
14	z	AA	AB
15	AC	AD	AE
16	AF	AH	AJ
17	AK	AL	AM
18	AP	AR	AS
19	AT	AU	AV
20	AW	AX	AY
21	AZ	BA	BB
22	BC	BD	BE
23	BJ	BK	BL
24	BM	BN	BP
25	BS	BT	BU
26	BV	BR	BF
27	BH	AN	s
28	W	M	D
General			
Ground	V		



#### MP-62 Series

12 Ch – 39 pin

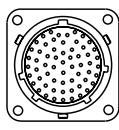
Ch	+	-	G
1	p	n	q
2	W	A	X
3	N	f	P
4	L	e	M
5	J	d	K
6	G	c	H
7	E	b	F
8	D	a	Z
9	C	B	Y
10	U	j	V
11	i	h	T
12	R	g	S
General			
Ground	N/A		



#### MP-62 Series

20 Ch – 61 pin

Ch	+	-	G
1	JJ	HH	NN
2	MM	KK	PP
3	BB	AA	CC
4	s	FF	W
5	r	EE	V
6	e	D	x
7	f	E	y
8	q	DD	U
9	S	p	T
10	P	N	R
11	m	k	n
12	L	K	M
13	J	i	j
14	H	G	h
15	g	F	z
16	d	C	w
17	B	A	c
18	b	a	Z
19	v	u	Y
20	t	GG	X
General			
Ground	N/A		



# Amphenol

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Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page
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112119	62	AC3FCPI	11	AC3MAV1-AU-B	29	AC3MPV	19	AC4MPNZ-AU	20
112133	62	AC3FCPI BULK	11	AC3MAV2-AU-B	29	AC3MPVB	19	AC4MPNZB	20
112507	62	AC3FCPI-AU	11	AC3MAV3-AU-B	29	AC3MP	20	AC4MPNZB BULK	20
112508	62	AC3FCPJ	8	AC3MAV4-AU-B	29	AC3MP BULK	20	AC4MPNZB-AU	20
112509	62	AC3FDP	38	AC3MAV-AU-B	28	AC3MP-AU	20	AC4MPNZV	20
112519	62	AC3FDP BULK	38	AC3MB	4	AC3MPB	20	AC4MPNZVB	20
112521	62	AC3FDPH	38	AC3MB BULK	4	AC3MPB BULK	20	AC4MPV	20
112565	62	AC3FDPH BULK	38	AC3MB-AU	4	AC3MPB-AU	20	AC4MPVB	20
112576	62	AC3FDPHL	38	AC3MBJ	4	AC3MPNZ	19	AC5F	5
112606	62	AC3FDPHL BULK	38	AC3MCP	8	AC3MPNZ BULK	19	AC5F BULK	5
112625	62	AC3FDPI	42	AC3MCP BULK	8	AC3MPNZ-AU	19	AC5F-AU	5
112644	62	AC3FDPI BULK	42	AC3MCP-AU	8	AC3MPNZB	19	AC5FB	5
112950	62	AC3FDPL	42	AC3MCP1	11	AC3MPNZB BULK	19	AC5FB BULK	5
112951	62	AC3FDPL BULK	42	AC3MCP1 BULK	11	AC3MPNZB-AU	19	AC5FB-AU	5
112952	62	AC3FDPL	38	AC3MCP1-AU	11	AC3MPNZV	19	AC5FBJ	5
112953	62	AC3FDPL BULK	38	AC3MCPJ	8	AC3MPNZV	19	AC5FDZ	17
112955	62	AC3FDPV	38	AC3MDP	38	AC3MPP	40	AC5FDZ BULK	17
112956	62	AC3FDPV BULK	38	AC3MDP BULK	38	AC3MPP BULK	40	AC5FDZ-AU	17
112957	62	AC3FDPV	38	AC3MDPH	38	AC3MPPH	40	AC5FDZB	17
112958	62	AC3FDPV BULK	38	AC3MDPH BULK	38	AC3MPPH BULK	40	AC5FDZB BULK	17
112975	62	AC3FDZ	16	AC3MDPHL	38	AC3MPPHL	40	AC5FDZB-AU	17
029-4006-000	59	AC3FDZ BULK	16	AC3MDPHL BULK	38	AC3MPPHL BULK	40	AC5FDZV	17
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47-10150	63	AC3FI	9	AC3MDPV	38	AC3MPPV	40	AC5FPZB BULK	21
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AC3F BULK	4	AC3FJ	4	AC3MDZ BULK	16	AC3MPVB	20	AC5M BULK	5
AC3F3FBW	59	AC3FPP	40	AC3MDZ-AU	16	AC4F	5	AC5M-AU	5
AC3F3FP	445	AC3FPP BULK	40	AC3MDZB	16	AC4F BULK	5	AC5MB	5
AC3F3FPPH	45	AC3FPPH	40	AC3MDZB BULK	16	AC4F-AU	5	AC5MB BULK	5
AC3F3FPPHL	45	AC3FPPH BULK	40	AC3MDZB-AU	16	AC4FB	5	AC5MB-AU	5
AC3F3FPP1	43	AC3FPPHL	40	AC3MDZV	16	AC4FB BULK	5	AC5MBJ	5
AC3F3FPP1L	43	AC3FPPHL BULK	40	AC3MDZVB	16	AC4FB-AU	5	AC5MDZ	17
AC3F3FPPL	45	AC3FPP1	42	AC3MI	9	AC4FBJ	5	AC5MDZ BULK	17
AC3F3FPV	46	AC3FPP1 BULK	42	AC3MI BULK	9	AC4FDZ	17	AC5MDZ-AU	17
AC3F3FPVVL	46	AC3FPP1L	42	AC3MI-AU	9	AC4FDZ BULK	17	AC5MDZB	17
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AC3F3MPPH	46	AC3FPPV	40	AC3MJ	4	AC4FDZB-AU	17	AC5MDZVB	17
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