



# Entertainment







### Amphenol Australia Pty. Ltd.

Amphenol Australia's head office is based in Melbourne, Victoria and is the Sales, Marketing and Engineering centre of excellence for an extensive range of professional connector and cabling products.

Amphenol's global presence allows us to take full advantage of our numerous corporate resources and product portfolio to provide you with a vast offering and choice. Our extensive range is designed to meet the specific needs of the entertainment markets to make the selection of your interconnect partner an easy choice.

The company has been producing products for the pro-audio industry for over fifty years. Since the development of our XLR AC Series connectors, we have continued to provide our customers with exacting quality in an increasingly competitive environment. Continuous improvement through ISO9001, a focus on environmental awareness and development of next generation industry leading products is our philosophy. As the entertainment industry moves into the future the emerging technologies from other industries has become more prevalent and more challenging. Amphenol Australia's global presence combined with its close technical relationships with other Amphenol sister divisions, each a specialist and leader in their own interconnect field, places it well to support innovation and meet this challenge head on.

The ability of Amphenol to provide a full range of design services required to support the customers applications design and modelling, applications engineering, fabrication, value-added assembly and testing, coupled with the largest interconnect offering on the market means that we can support all of your system level needs.



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### XLR Connectors AX Series Cable Connectors



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

#### **Features**

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

### Options

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

#### **Ordering Codes**

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

## AX SERIES XLR CABLE CONNECTORS

## Simple steps to guide you in using this catalogue

- 1) Identify the product group listed in Contents on page 1 and go directly to that page number.
- 2) Each product group cover page then details information and options available.
- 3) Refer to the product detail pages and identify the product you require pictorially.
- 4) Read the product description column for the products standard features.
- 5) Use variations column to determine your choice.
- 6) Identify part number.
- 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.
- Please contact us directly if you have any further problems.



### **XLR Connectors AX Series Cable Connectors**



#### Features:

- Unique Australian designed shell and housing.Ergonomic stylish sleeve design for improved grip.
- Oversized latch lever preserves your thumb.
- Leading first mate last break pin 1 on socket connectors.
- Chuck style cable clamp to suit 3mm 8mm (0.118" 0.314") cable O.D. with integrated split to allow inclusion after soldering.Overmolded cable support boot.
- New socket contact design for improved contact resistance.
- Precision machined pin contacts as standard.
- Compact solder buckets to reduce soldering time and wastage.
- Zinc diecast shell housing with Satin nickel or Matt black finish.
- Available in 3,4 and 5 contact arrangements.

#### **Options:**

- Coloured I.D sleeves.
- Satin nickel or Matt black shell finish.
- · Single or Bulk packaging.

Part Number Breakdown: Page 5

**Specifications: Page 8** 

Assembly Instructions: Page 6 & 7

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
310		XLR 3 pole male Machined contacts Nickel Finish	Standard	AX3M
3	010		Bulk Pack	AX3M BULK
	<b></b> 71 - 74 [2.80-2.90"]⊧-	XLR 3 pole male Machined contacts	Standard	AX3MB
9650		Black Finish	Gold Plated Contacts	AX3MB-AU
3			Bulk Pack	AX3MB BULK
	XLR 3 pole female       Stamped contacts       Nickel Finish	Stamped contacts	Standard	AX3F
			Bulk Pack	AX3F BULK
	[] [2]71 - 74 [2.80-2.90"]—⊨	XLR 3 pole female Stamped contacts	Standard	AX3FB
H Com	-71 - 74 [2.80-2.90"] 	Black Finish	Gold Plated Contacts	AX3FB-AU
			Bulk Pack	AX3FB BULK
	T1 - 74 [2.80-2.90"]     XLR 4 pole male Machined contacts Nickel Finish	Machined contacts	Standard	AX4M
		Bulk Pack	AX4M BULK	

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



**AX Series Cable Connectors** 

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	F	71 - 74 <b>[2.80-2.90"]</b> ►	XLR 4 pole male Machined contacts	Standard	AX4MB
- Herry			Black Finish	Gold Plated Contacts	AX4MB-AU
				Bulk Pack	AX4MB BULK
	8127 [0618"]	-71 - 74 [2.80-2.90"]	XLR 4 pole female Machined contacts Nickel Finish	Standard	AX4F
				Bulk Pack	AX4F BULK
	<b>18</b>	71 - 74 [2.80-2.90"]~	XLR 4 pole female Machined contacts	Standard	AX4FB
SIC	Ø15.7 [0.618 <sup>-1</sup>		Black Finish	Gold Plated Contacts	AX4FB-AU
				Bulk Pack	AX4FB BULK
		XLR 5 pole male Machined contacts Nickel Finish	Standard	AX5M	
	51 <b>0</b>			Bulk Pack	AX5M BULK
		71 - 74 <b>[2.80-2.90"]</b>	XLR 5 pole male Machined contacts	Standard	AX5MB
and the con	["#47.0] 610 ["#47.0]	Black Finish Gold Plated Contacts		Gold Plated Contacts	AX5MB-AU
				AX5MB BULK	
	6157 [0.6187]	71 - 74 [2.90-2.90"]	XLR 5 pole female Machined contacts Nickel Finish	Standard	AX5F
				Bulk Pack	AX5F BULK
<u>u</u> 0	<b>5</b> 87 -	71 - 74 [ <b>2.80-2.90"]</b> ⊶	XLR 5 pole female	Standard	AX5FB
6/6	Ø15.7 [0.618 <sup>-1</sup>		Machined contacts Black Finish	Gold Plated Contacts	AX5FB-AU
				Bulk Pack	AX5FB BULK



## PART NUMBER BREAKDOWN

METAL SHELL TYPE - SOLDER

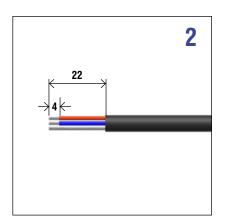
					THIN	AYOUTS	5	JISH	alo	ROPIL	ING	PLATING
				states	R. CONTR	ET CEMP	R SHE	L FINISH	E <sup>HE COLON</sup>	EVENN	CONTRE	FRATING PREM
E. G. AX3MB2M-AU BULK AX (Series Prefix), 3	contacts, I			AX	3	М	В	2	М	-	AU	BULK
2 (Red Sleeve) M (Sl	eeve Mark	ing) -	AU (Gold Plated Contacts), Bulk Packaged.									
SERIES PREFIX	AX	=	Series Prefix									
CONTACT LAYOUTS	3	=	3 Contacts	1								
	4	=	4 Contacts									
	5	=	5 Contacts									
GENDER	F	=	Female Socket Contacts									
	М	=	Male Pin Contacts									
SHELL FINISH	Blank	=	Nickel Plated Finish									
	В	=	Black Finish									
SLEEVE COLOUR	Blank	=	Black									
OPTION	1	=	Brown									
	2	=	Red									
	3	=	Orange									
	4	=	Yellow									
	5	=	Green									
	6	=	Blue									
	7	=	Violet									
	8 9	=	Grey White									
			Standard Sleeve	-								
SLEEVE MARKING	Blank 0M	=	Standard Sleeve Marking Sleeve (Black)									
	M	=	Marking Sleeve (Colour)						]			
CONTACT PLATING	Blank		Standard Plating (Silver or Tin) (Refer to Standard Data)	-								
	AU	=	Gold Plated								_	
PACKAGING	Blank	=	Individual Bags	1								
	BULK	=	Bulk Packed									



### XLR Connectors AX Series Cable Connectors



Slide the nut (Backshell) onto the cable



Strip the cable



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



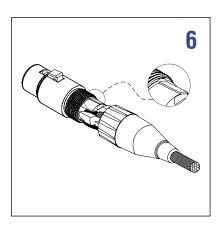
Install the cable clamp, flush to the insert making sure to align the top slot with the spring. Then push the insert & cable clamp together into the shell.



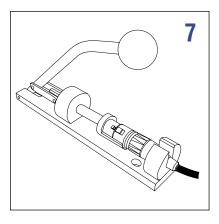
Thread the nut (Backshell) onto the shell (Torque 0.8Nm - 1.2Nm) to activate the cable clamp and close the connector assembly.

## PI539 ASSEMBLY INSTRUCTIONS

AX SERIES FEMALE XLR CABLE CONNECTOR

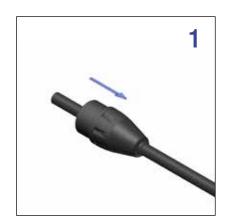


Close the cable clamp slightly and push the boot over the clamp ensuring the wires fit inside the boot.

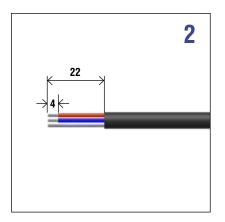


Final assembly can be achieved either by manually screwing the boot on, or by using an Amphenol Australia T2860 termination tool.





Slide the nut (Backshell) onto the cable



Strip the cable



Solder the wires to the contacts.



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



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

## PI538 ASSEMBLY INSTRUCTIONS

AX SERIES MALE XLR CABLE CONNECTOR



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



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

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

 $^{\scriptscriptstyle 1)}\,\text{Not}$  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.



Rev 3 - 03/2013

## AC SERIES XLR CABLE CONNECTORS

Amphenol Australia have been manufacturing and designing innovative XLR connectors since 1955 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
- 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.
- 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 major XLR brands.

### **Options**

- Solder Bucket termination
- 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
   Standard Jaws cable clamp, Cable 0.D 3mm
- to 6.5mm (0.118" to 0.255") • Large Jaws cable clamp, Cable 0.D 6.5mm
- to 8mm (0.255" to 0.314")
- Metal Boots / Backshells
- Coloured Boots / Backshells
- Coloured Identification rings
  Termination / Assembly tooling
- Termination / Assembly tooling

Anaphanalns Turkey&MiddleEast



Standard Jaws cable clamp (Black), Cable 0.D 3mm to 6.5mm (0.118" to 0.255")



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

### **Ordering Codes**

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- 5) Use variations column to determine your choice.
- 6) Identify part number.
- In the event the particular option you require is not listed please refer to the part number breakdown page at the end of each section.
- 8) Please contact us directly if you have any further problems.





#### Features:

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

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

Part Number Breakdown: Page 13

**Specifications: Page 15** 

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	XLR 3 pole male, Machined contacts, Nickel Finish,	Machined contacts, Nickel Finish,	Standard	AC3MM	
	ø19.0 [0.748*] ↓		Jaws cable clamp	Bulk Pack	AC3MM BULK
	6	—82.0 [3.228″]——⊶	XLR 3 pole male, Machined contacts,	Standard	AC3MMB
	ø19.0 [0.748″]		Black Finish, Jaws cable clamp	Gold Plated Contacts	AC3MMB-AU
	¥(			Bulk Pack	AC3MMB BULK
	82.0 [3.228"] XLR 3 pole male, Stamped contacts, Nickel Finish,	Stamped contacts, Nickel Finish,	Standard	AC3M	
	ø19.0 [0.748″] ()		Jaws cable clamp	Large Cable Clamp	AC3MJ
V			Bulk Pack	AC3M BULK	
	4		XLR 3 pole male, Stamped contacts,	Standard	AC3MB
	<u></u>		Black Finish, Jaws cable clamp	Gold Plated Contacts	AC3MB-AU
1	ø19.0 [0.748″] []			Large Cable Clamp	AC3MBJ
	I(			Bulk Pack	AC3MB BULK
		-82.0 [3.228"]	XLR 3 pole female, Stamped contacts, Nickel Finish,	Standard	AC3F
	ø19.0 [.748″]	Jaws cable clamp	Large Cable Clamp	AC3FJ	
			Bulk Pack	AC3F BULK	
		—82.0 [3.228″]———— <del></del>	XLR 3 pole female, Stamped contacts,	Standard	AC3FB
			Black Finish, Jaws cable clamp	Gold Plated Contacts	AC3FB-AU
	ø19.0 [.748″]			Large Cable Clamp	AC3FBJ
	<u>.                                    </u>			Bulk Pack	AC3FB BULK



**AC Series Cable Connectors** 

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			XLR 4 pole male, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC4M
	ø19.0 [0.748″] 0			Large Cable Clamp	AC4MJ
	<u>v          </u> (			Bulk Pack	AC4M BULK
~			XLR 4 pole male, Machined contacts,	Standard	AC4MB
		02.0 [3.220]	Black Finish, Jaws cable clamp	Gold Plated Contacts	AC4MB-AU
	ø19.0 [0.748″] ()			Large Cable Clamp	AC4MBJ
	<u>v                                    </u>			Bulk Pack	AC4MB BULK
			XLR 4 pole female, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC4F
	ø19.0 [.748″]		Jaws cable clamp	Large Cable Clamp	AC4FJ
				Bulk Pack	AC4F BULK
	ki		XLR 4 pole female, Machined contacts,	Standard	AC4FB
The lot			Black Finish, Jaws cable clamp	Gold Plated Contacts	AC4FB-AU
	ø19.0 [.748″]		Jaws cable clamp	Large Cable Clamp	AC4FBJ
5. *				Bulk Pack	AC4FB BULK
	λ		XLR 5 pole male, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC5M
	ø19.0 [0.748″]		Jaws cable clamp	Large Cable Clamp	AC5MJ
				Bulk Pack	AC5M BULK
		0.	XLR 5 pole male,	Standard	AC5MB
			Machined contacts, Black Finish,	Gold Plated Contacts	AC5MB-AU
	ø19.0 [0.748″]		Jaws cable clamp	Large Cable Clamp	AC5MBJ
	. ⊻			Bulk Pack	AC5MB BULK
	XLR 5 pole female, Machined contacts, Nickel Finish,	Machined contacts,	Standard	AC5F	
	ø19.0 [.748″]	748"]		Large Cable Clamp	AC5FJ
				Bulk Pack	AC5F BULK
			XLR 5 pole female, Machined contacts	Standard	AC5FB
			Machined contacts, Black Finish,	Gold Plated Contacts	AC5FB-AU
	ø19.0 [.748″]		Jaws cable clamp	Large Cable Clamp	AC5FBJ
				Bulk Pack	AC5FB BULK



**AC Series Cable Connectors** 

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		82.0 [3.228"]	XLR 6A pole male, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC6AM
	ø19.0 [0.748″] 0			Large Cable Clamp	AC6AMJ
	<u>v                                    </u>			Bulk Pack	AC6AM BULK
	L.		XLR 6A pole male, Machined contacts,	Standard	AC6AMB
			Black Finish, Jaws cable clamp	Gold Plated Contacts	AC6AMB-AU
	ø19.0 [0.748″] 0			Large Cable Clamp	AC6AMBJ
	<u>v</u>			Bulk Pack	AC6AMB BULK
			XLR 6A pole female, Machined contacts, Nickel Finish,	Standard	AC6AF
	ø19.0 [.748″]		Jaws cable clamp	Large Cable Clamp	AC6AFJ
				Bulk Pack	AC6AF BULK
		000 50 000#3	XLR 6A pole female,	Standard	AC6AFB
			Machined contacts, Black Finish,	Gold Plated Contacts	AC6AFB-AU
	ø19.0 [.748″]		Jaws cable clamp	Large Cable Clamp	AC6AFBJ
				Bulk Pack	AC6AFB BULK
			XLR 7 pole male,	Standard	AC7M
			Gold plated Machined contacts,		
	ø19.0 [0.748″] 0		Nickel Finish, Jaws cable clamp	Large Cable Clamp	AC7MJ
	<u> </u>			Bulk Pack	AC7M BULK
		82.0 [3.228*]	XLR 7 pole male, Gold plated Machined contacts,	Standard	AC7MB
	ø19.0 [0.748″] 0		Black Finish, Jaws cable clamp	Large Cable Clamp	AC7MBJ
	⊻∟			Bulk Pack	AC7MB BULK
•	<u> </u>		XLR 7 pole female, Gold plated	Standard	AC7F
The second second			Machined contacts, Nickel Finish,		
	ø19.0 [.748"]		Jaws cable clamp	Large Cable Clamp	AC7FJ
	<u> </u>			Bulk Pack	AC7F BULK
			XLR 7 pole female, Gold plated	Standard	AC7FB
			Machined contacts,		
	ø19.0 [.748″]	Ø19.0 [.748']	Black Finish, Jaws cable clamp	Large Cable Clamp	AC7FBJ
				Bulk Pack	AC7FB BULK



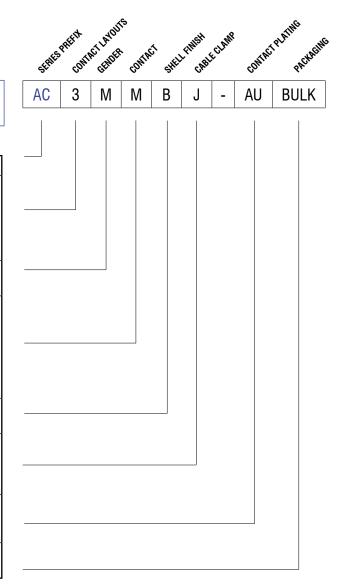
## PART NUMBER BREAKDOWN

METAL SHELL TYPE - SOLDER

E. G . AC3MMBJ-AU BULK

AC (Series Prefix), 3 contacts, 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
	М	=	Male Pin Contacts
CONTACT <sup>1</sup>	Blank	=	Stamped Contacts
	М	=	Machined Contacts
	G	=	Stamped Contacts, Ground Tag
	MG	=	Machined Contacts, Ground Tag
			(Applicable 3 male pin contacts, option M & MG only)
SHELL FINISH <sup>2</sup>	Blank	=	Nickel Plated Finish
	В	=	Black Polyester Finish
CABLE CLAMP	Blank	=	Standard Jaws 3mm - 6.5mm cable O.D. (0.118" to 0.255")
	J	=	Large Jaws 6.5mm - 8mm cable O.D. (0.255" to 0.314")
CONTACT PLATING <sup>3</sup>	Blank	=	Standard Plating (Silver or Tin)
			(Refer to Standard Data)
	AU	=	Gold Plated
PACKAGING	Blank	=	Individual Bags
	BULK	=	Bulk Packed



#### Note:

- <sup>1</sup>4 7 contact connectors have machined contacts and grounding as standard.
- $^{\rm 2}$  Ground contacts are not supplied with the black polyester finish shell option.
- <sup>3</sup> 7 Contact is gold plated as standard.

<sup>4</sup> All AC Series Connectors are available with optional colour coded boot / backshell. Refer to page 135 and simply add colour to end of part number. Example: AC3MM - RED



XLR Connectors AC Series Cable Connectors



#### 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 15**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		2.0 [3.228"]	XLR 3 pole male, Machined contacts, Thermoplastic shell, Jaws cable clamp	Standard Bulk Pack	AC3MMCP
	ø19.0 [0.748″] ⊠ ¥				AUSIVINIOF BULK
		2.0 [3.228"]	XLR 3 pole male, Stamped contacts, Thermoplastic shell, Jaws cable clamp	Standard	AC3MCP
8	∮ Ø19.0 [0.748″] ☑ ☑			Bulk Pack	AC3MCP BULK
		2.0 [3.228″]	XLR 3 pole female, Stamped contacts, Thermoplastic shell, Jaws cable clamp	Standard	AC3FCP
	¢19.0 [0.748"]			Bulk Pack	AC3FCP BULK

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



### **XLR Connectors AC Series Cable Connectors**

## **STANDARD DATA AC CABLE CONNECTORS**

			VALUE					
GENERAL	Number of contacts		3	4	5	6A	7	
CHARACTERISTICS	AC Series Contact <i>I</i> (Front view of pin in							
	Termination				SOLDER			
	Max. Wire Gauge - S	Stranded wire: Solder	14AWG	16AWG	18/	AWG	20AWG	
	Flammability rating (insu	ator plastics & housings)			UL94V-0			
	Environmental			Complies with	EU RoHS 2 Direct	ive 2011/65/EU		
ELECTRICAL Characteristics	Service Voltage RM	S			133V <sup>1</sup>			
CHANACIENIS IICS	Test Voltage AC RM	S			1400V			
	Current carrying ca	pacity: Solder	15A	10A	7.	.5A	5A	
	Typical Contact Resistance ≤3mΩ							
	Insulation Resistance	e			≥1GΩ			
CLIMATIC Characteristics	Protection Class				IP40			
UNANAU IENIS IIUS	Operating Temperat	ure		-25°C to	o +75°C (-13°F to	+167°F)		
MECHANICAL Characteristics	Insertion and Withdrawal force		≥10N - ≤30N					
GIANAGTENISTICS	Weight - Metal <sup>2</sup>		36g (0.080lb)	37g (0.081lb)	38g (0.083lb)			
	Weight - Thermopla	stic <sup>2</sup>	18g         19g         20g           (0.039lb)         (0.041lb)         (0.044lb)					
	Typical Cable retent	ion force	22Kg to 44Kg (50lb to 100lb) - Dependent on cable material and diameter.					
	Cable O.D. range - JAWS clamp	Standard Large			6.5mm (0.118" to to 8mm ( 0.255" to			
	Mechanical Operation	ons			1000 mating cycle	S		
MATERIALS	Connector shell - M Shell finish	etal	Diecast Zinc Alloy Satin nickel or Bla					
	Connector shell - TI Shell finish	nermoplastic	Thermoplastic, U Black	L94V-0 Modified P	PE Resin			
	Insulators		UL94V-0 PBT Resin or Modified PPE Resin					
	Boot / Backshell		UL94V-0 Modifie	d PPE Resin or Ma	chined Brass			
	Finish	1	Black, other colours available - see page 135					
	Cable clamp (JAWS)	Standard Solder Large Solder	UL94V-0 Modified PPO Resin (Black) UL94V-0 Modified PPO Resin (Purple)					
	Cable Bushing		Santoprene					
	Male Contact (Solder / Plating)	Stamped Machined	Phosphor Bronze / Silver or Gold (Optional) Brass / Silver or Gold (Optional)					
	Female Contact (Solder / Plating)	Stamped Machined	Phosphor Bronze Brass / Silver or (	/ Tin or Gold (Optio Gold (Optional)	onal)			

<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.



Rev 6 - 03/2015

**Chassis Mount** 



The metal chassis mount connectors are designed for the audio user where durability, reliability and strength across a wide range of applications are important. All 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 2
- 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.

## XLR METAL CHASSIS MOUNT CONNECTORS

## Simple steps to guide you in using this catalogue

- 1) Identify the product group listed in Contents on page 1 and go directly to that page number.
- 2) Each product group cover page then details information and options available.
- 3) Refer to the product detail pages and identify the product you require pictorially.
- 4) Read the product description column for the products standard features.
- 5) Use variations column to determine your choice.
- 6) Identify part number.
- 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.



### **XLR Connectors AX Series Chassis Mount**



#### Features:

- Zinc Diecast Shell.
- D size housing can be front or rear mounted using the same panel cutout.
- 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.M3 threaded holes (Optional).

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

Part Number Breakdown: Page 20

**Specifications: Page 26** 

PRODUCT	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NO.
1200		XLR 3 pole male, D Flange, Machined contacts, Nickel Finish	Standard M3 Threaded Holes	AX3MD AX3MD-M3
100,			Vertical PCB	AX3MDV
	-26.0 [1.024]		M3 Threaded Holes	AX3MDV-M3
	-31.0 [1.220]	XLR 3 pole male, D Flange,	Standard	AX3MDB
		Machined contacts, Black Finish	M3 Threaded Holes	AX3MDB-M3
1	9.5 		Gold Plated Contacts	AX3MDB-AU
			Vertical PCB	AX3MDVB
			M3 Threaded Holes	AX3MDVB-M3
1		XLR 3 pole female, D Flange, Stamped contacts, Nickel Finish	Standard	AX3FD
	26.0 [1.024] -26.0 [1.024] -26.0 [1.024] -2.0 [0.079] -2.5 [0.098] -2.5 [0.098]		M3 Threaded Holes	AX3FD-M3
(eusH)		XLR 3 pole female,	Standard	AX3FDB
	Amplituation         9.5	D Flange, Stamped contacts, Black Finish	M3 Threaded Holes	AX3FDB-M3
			Gold Plated Contacts	AX3FDB-AU

Amphenol Turkey&MiddleEast

**AX Series Chassis Mount** 

PRODUCT	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NO.
6		XLR 4 pole male, D Flange,	Standard	AX4MD
		Machined contacts, Nickel Finish	M3 Threaded Holes	AX4MD-M3
	<u>-</u> 26.0 [1.024]→1 <u>-</u> 3.0 [0.118] <u>-</u> 31.1 [1.222]		Vertical PCB	AX4MDV
			M3 Threaded Holes	AX4MDV-M3
	-31:0 [1:220]	XLR 4 pole male, D Flange, Machined contacts, Black Finish	Standard	AX4MDB
	9.5 9.5 9.5 9.0 [0.748] [0.374] SOLDER CONTACTS 25.45 [1.002] - 24.45 [0.963] - 24.45 [0.963]		Gold Plated Contacts	AX4MDB-AU
			Vertical PCB	AX4MDVB
600		XLR 4 pole female,	Standard	AX4FD
10		D Flange, Machined contacts, Nickel Finish	M3 Threaded Holes	AX4FD-M3
			Vertical PCB	AX4FDV
	-26.0 [1.024] -26.0 [1.024] -2.0 [0.079] -2.5 [0.098]		M3 Threaded Holes	AX4FDV-M3
FUSE	-31.0 (1.220)	XLR 4 pole female, D Flange, Machined contacts, Black Finish	Standard	AX4FDB
	Amphandi         9.5           19.0         [0.748]           [0.374]         28.1           [1.106]         24.50           [0.965]		Gold Plated Contacts	AX4FDB-AU
C C			Vertical PCB	AX4FDVB
		XLR 5 pole male,	Standard	AX5MD
12/00		D Flange, Machined contacts, Nickel Finish	M3 Threaded Holes	AX5MD-M3
			Vertical PCB	AX5MDV
	-26.0 [1.024]- 		M3 Threaded Holes	AX5MDV-M3
	-31.0 [1.220]	XLR 5 pole male, D Flange, Machined contacts, Black Finish	Standard	AX5MDB
	9.5 9.5 19.0 [0.748] [0.374] SOLDER CONTACTS 25.45 [1.002] 24.45 [0.963] -		Gold Plated Contacts	AX5MDB-AU
			Vertical PCB	AX5MDVB



**AX Series Chassis Mount** 

PRODUCT	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NO.
		XLR 5 pole female, D Flange,	Standard	AX5FD
		Machined contacts, Nickel Finish	M3 Threaded Holes	AX5FD-M3
			Vertical PCB	AX5FDV
1.0	-26.0 [1.024]		M3 Threaded Holes	AX5FDV-M3
	-21.0 [1.220]	XLR 5 pole female, D Flange, Machined contacts,	Standard	AX4FDB
	9.5 19.0 [0.748] [0.374] 9.5 19.0 [0.748] [0.374] 9.5 - 19.0 [0.748] - [0.374] 9.5 - 26.0 [1.024] - 24.50 [0.965] -	Black Finish	Gold Plated Contacts	AX4FDB-AU
			Vertical PCB	AX4FDVB
		XLR 6A pole male,	Standard	AX6AMD
		D Flange, Machined contacts, Nickel Finish	M3 Threaded Holes	AX6AMD-M3
			Vertical PCB	AX6AMDV
	-26.0 [1.024]		M3 Threaded Holes	AX6AMDV-M3
	24.0 [0.472]	XLR 6A pole male, D Flange, Machined contacts, Black Finish	Standard	AX6AMDB
	9.5 9.5 19.0 [0.748] [0.374] SOLDER CONTACTS 25.45 [1.002] - 24.45 [0.963] -		Gold Plated Contacts	AX6AMDB-AU
			Vertical PCB	AX6AMDVB
		XLR 6A pole	Standard	AX6AFD
100		female, D Flange,	M3 Threaded Holes	AX6AFD-M3
		Machined contacts, Nickel Finish	Vertical PCB	AX6AFDV
	-26.0 [1.024]		M3 Threaded Holes	AX6AFDV-M3
(ausR)		XLR 6A pole female, D Flange,	Standard	AX6AFDB
	Solder         Contacts         PCB contacts           19.0         [0.748]         [0.374]         -26.0         [1.022]         -24.50         [0.965]	Machined contacts, Black Finish	Gold Plated Contacts	AX6FADB-AU
			Vertical PCB	AX6AFDVB

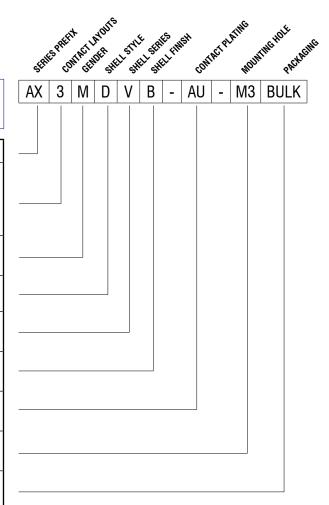
Amphenol Turkey&MiddleEast **AX Series Chassis Mount** 

## PART NUMBER BREAKDOWN

METAL TYPE FLANGE

	BULK 3 contacts, Male, D Small Flange, Vertical PCB Contact, ish, - AU (Gold Plated Contacts), - M3 Mounted Holes,					
SERIES PREFIX	AX	=	Series Prefix			

CONTACT LAYOUTS	3 4 5 6A	= = =	3 Contacts 4 Contacts 5 Contacts 6 Contacts
GENDER	F M	=	Female Socket Contacts Male Pin Contacts
SHELL STYLE	D	=	Small Flange (front or rear mounting)
SHELL SERIES	Blank V	=	Solder Bucket Vertical PCB Contact
SHELL FINISH <sup>1</sup>	Blank B	=	Nickel Plated Finish Black Polyester Finish
CONTACT PLATING <sup>2</sup>	Blank AU	=	Standard Plating Gold Plated
MOUNTING HOLES	Blank M3	=	Through Holes M3 Threaded Holes
PACKAGING	Blank BULK	=	Individual Bags Bulk Packed



Note:

<sup>1</sup> Ground contacts are not supplied with the black polyester finish shell option.

<sup>3</sup> Non-Latching Versions (Female) available - Please contact us for part number options.



### **XLR Connectors** AC "Z" Series Chassis Mount



#### Features:

• Zinc Diecast Shell.

- D size housing can be front or rear mounted using the same panel cutout.
- Solder Bucket connections.
  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, Black finish, Non-Latching (Female only), Bulk Pack.

Part Number Breakdown: Page 25 **Specifications: Page 26** PCB Footprints: Page 27 Panel Cutouts: Page 27

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
(Carlor)	19.0	- <del></del> 2.7 [.106"]	XLR 3 pole male, D Flange, Machined contacts, Nickel Finish	Standard	AC3MMDZ
000				Bulk Pack	AC3MMDZ BULK
96		Solder contacts	XLR 3 pole male, D Flange, Machined contacts, Black Finish	Standard	AC3MMDZB
0	ka 26.0 [1.024"] a	ka 32.1 [1.263"] — a		Gold Plated Contacts	AC3MMDZB-AU
P	10.0	0.7 [ 462"]	XLR 3 pole male, D Flange, Stamped contacts, Nickel Finish	Standard	AC3MDZ
	19.0 	2.7 [.106"]		Bulk Pack	AC3MDZ BULK
20			XLR 3 pole male, D Flange, Stamped contacts, Black Finish	Standard	AC3MDZB
0	ka-26.0 [1.024"]-a	⊶ 32.1 [1.263 <sup>**</sup> ] — →		Gold Plated Contacts	AC3MDZB-AU
		<del> ▼ = </del> 6.5 [.256"]	XLR 3 pole female, D Flange, Stamped contacts, Nickel Finish	Standard	AC3FDZ
C				Bulk Pack	AC3FDZ BULK
	19.0 [.748"]	Solder contacts 5.5 [.217"] 33.5 [1.319"]	XLR 3 pole female, D Flange, Stamped contacts, Black Finish	Standard	AC3FDZB
C,				Gold Plated Contacts	AC3FDZB-AU



### AC "Z" Series Chassis Mount

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	ןס- 19.0  ס- [.748"]-סן	- <del></del>	XLR 4 pole male, D Flange, Machined contacts, Nickel Finish	Standard	AC4MDZ
	-24.0 [-945"] -21.0 [-925"]			Bulk Pack	AC4MDZ BULK
9		Solder Contacts	XLR 4 pole male, D Flange, Machined contacts, Black Finish	Standard	AC4MDZB
Tes.	┝╾26.0 [1.024"]╺┥	⊶ 32.1 [1.263"]—		Gold Plated Contacts	AC4MDZB-AU
	r≠-26.0 [1.024"]-=		XLR 4 pole female, D Flange, Machined contacts, Nickel Finish	Standard	AC4FDZ
	-24.0 [.945"]-			Bulk Pack	AC4FDZ BULK
		SOLDER CONTACTS	XLR 4 pole female, D Flange, Machined contacts, Black Finish	Standard	AC4FDZB
	19.0 [.748"]	Ja−−− 32.0 [1.260"] →	Didok Finish	Gold Plated Contacts	AC4FDZB-AU
R	19.0		XLR 5 pole male, D Flange, Machined contacts, Nickel Finish	Standard	AC5MDZ
	1.520 		NICKETTINISI	Bulk Pack	AC5MDZ BULK
9	31.0 [1]	Solder contacts	XLR 5 pole male, D Flange, Machined contacts, Black Finish	Standard	AC5MDZB
100	⊨ 26.0 [1.024"]→	ka 32.1 [1.263"] — ⊶		Gold Plated Contacts	AC5MDZB-AU
	p=-26.0 [1.024"]-=	<del></del> 6.5 [.256"]	XLR 5 pole female, D Flange, Machined contacts, Nickel Finish	Standard	AC5FDZ
				Bulk Pack	AC5FDZ BULK
Come		SOLDER CONTACTS	XLR 5 pole female, D Flange, Machined contacts, Black Finish	Standard	AC5FDZB
19.0 [.748"]-=		→ <u> </u>		Gold Plated Contacts	AC5FDZB-AU



### AC "Z" Series Chassis Mount

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
Real Provide P	19.0 	XLR 6A pole male, D Flange, Machined contacts, Nickel Finish	Standard	AC6AMDZ	
				Bulk Pack	AC6AMDZ BULK
9		SOLDER CONTACTS	XLR 6A pole male, D Flange, Machined contacts, Black Finish	Standard	AC6AMDZB
	⊨ 26.0 [1.024"]-d	ka— 32.1 [1.263"] —⊶		Gold Plated Contacts	AC6AMDZB-AU
(P) (P)	ר ביים ביים ביים ביים ביים ביים ביים ביי	XLR 6A pole female, D Flange, Machined contacts, Nickel Finish	Standard	AC6AFDZ	
C)	24.0 [.945"] =			Bulk Pack	AC6AFDZ BULK
C Care at	24.0	Solder Contacts	XLR 6A pole female, D Flange, Machined contacts, Black Finish	Standard	AC6AFDZB
	19.0 ⊶ [.748"]-⊶	s 31.1 [1.224"] →		Gold Plated Contacts	AC6AFDZB-AU
-			XLR 7 pole male, D Flange,	Standard	AC7MDZ
	ן= 19.0  = [.748] =ן -ק-2.7 [.10	Nickel Finis	Gold Plated Machined contacts, Nickel Finish	Vertical PCB	AC7MDZV
and a second				Bulk Pack	AC7MDZ BULK
8	26.0 [1.024"]	7"] 27.5 [1.083"]	XLR 7 pole male, D Flange, Gold Plated Machined contacts,	Standard	AC7MDZB
100.			Black Finish	Vertical PCB	AC7MDZVB
(Second			XLR 7 pole female, D Flange,	Standard	AC7FDZ
	₽ 26.0 [1.024 <sup>*</sup> ] ↔ P = 6.5 [.25	5"] - <del></del>	Gold Plated Machined contacts, Nickel Finish	Vertical PCB	AC7FDZV
00	240 [382]=			Bulk Pack	AC7FDZ BULK
	SOLDER CO 19.0 - [.748 <sup>-</sup> ] <sup>-2</sup>	CONTACTS PCB CONTACTS	XLR 7 pole female, D Flange, Gold Plated Machined contacts,	Standard	AC7FDZB
		Black Finish	Vertical PCB	AC7FDZVB	



AC "Z" Series Chassis Mount



#### 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.
- 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, Black Finish, Non-Latching (Female only), Bulk Pack.

Part Number Breakdown: Page 20	Specifications: Page 26
PCB Footprints: Page 27	Panel Cutouts: Page 27

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	POLES	PART NUMBER
		2.4 [.094 <sup>+</sup> ] Solder contacts 32.1 [1.265 <sup>-</sup> ]	XLR male, Narrow flange, Machined contacts	3	AC3MMPNZ
		<del>≤   =</del> −2.4 [.094"]	XLR male, Narrow flange,	3	AC3MPNZ
	63"] -		Stamped contacts,	4	AC4MPNZ
	(1.063 <sup>°</sup> )→ 36.8 [1.449 <sup>°</sup> ]→			5	AC5MPNZ
	Solder contacts	SOLDER CONTACTS		6	AC6AMPNZ
	≈22.2 [.874"]≈	-22.2 [.874"]		7	AC7MPNZ
e e e e e e e e e e e e e e e e e e e	-27.2 [1.070"]	SOLDER CONTACTS 31.5 [1.238"]	XLR male, Wide flange, Machined contacts	3	AC3MMP
	-27.2 [1.070"]	<del>-    -</del> −2.4 [.094"]	XLR male, Wide flange, Stamped contacts	3	AC3MP
E	[1.1039"] → ①			4	AC4MP
	26.4 [1.039"] 36.7 [1.45"]			5	AC5MP
9.000		SOLDER CONTACTS		6	AC6AMP
Internet	16.7 [.656"]	→ 32.5 [1.278"] →		7	AC7MP
		3.5 [.138"] 1	XLR female, Wide flange,	3	AC3FPZ
Pusit			Stamped contacts	4	AC4FPZ
	26.4 [1.4			5	AC5FPZ
0		SOLDER CONTACTS		6	AC6AFPZ
L	16.7 [.656"]			7	AC7FPZ

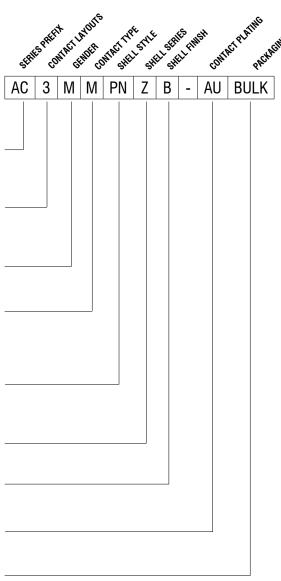
\*Black finish available on special request please contact factory.



## PART NUMBER BREAKDOWN

METAL TYPE FLANGE

	contacts, N		chined Contacts, <b>PN</b> (Narrow Flange), <b>Z</b> Finish, - <b>AU</b> (Gold Plated Contacts),		3	M	M	PN	
SERIES PREFIX	AC	=	Series Prefix						
	3	=	3 Contacts						
	4	=	4 Contacts						
CONTACT LAYOUTS	5	=	5 Contacts						
	6A	=	6 Contacts						
	7	=	7 Contacts						
	F	=	Female Socket Contacts	]					
GENDER	М	=	Male Pin Contacts						
MACHINED	Blank	=	Stamped Contacts						
CONTACTS <sup>1</sup>	Μ	=	Machined Contacts						
CONTACTO		(Applic	able 3 male pin contacts only)						
	D	=	Small Flange (front or rear mounting)						
SHELL STYLE	Р	=	Large Shell with Wide Flange						
	PN	=	Large Shell with Narrow Flange (male only)						
SHELL SERIES	Blank	=	Male P Shell Style Only						
SHELL SENIES	Z	=	Metal Chassis Series						
SHELL FINISH <sup>2</sup>	Blank	=	Nickel Plated Finish						
SHELL FINISH	В	=	Black Polyester Finish						
	Blank	=	Standard Plating						
CONTACT PLATING <sup>3</sup>			(Silver or Tin - refer to Standard Data)	—				-	
	AU	=	Gold Plated	1					
PACKAGING	Blank	=	Individual Bags						
	BULK	=	Bulk Packed	_					



#### Note:

<sup>1</sup>4 - 7 contact connectors have machined contacts and grounding as standard. They are not available in stamped contacts.

<sup>2</sup> Ground contacts are not supplied with the black polyester finish shell option.

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

<sup>4</sup> Non-Latching Versions (Female) available - Please contact us for part number options.



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

				VALUE			
GENERAL Characteristics	Number of contacts	3	4	5	6A	7	
UNANAU I ENIS IIUS	Contact Arrangement (Front view of pin inserts)						
	Termination		Solder Buck	et / Printed Circuit	Board (PCB)		
	Max. Wire Gauge - Stranded wire: Solder Printed Circuit Board - PCB	14AWG N/A	16AWG N/A	18AWG N/A	18AWG N/A	20AWG N/A	
	Flammability rating of plastics			UL94V-0			
	Environmental		Complies with	EU RoHS 2 Directi	ve 2011/65/EU		
ELECTRICAL	Service Voltage RMS			133V <sup>1)</sup>			
CHARACTERISTICS	Test Voltage AC RMS			1400V			
	Current carrying capacity: Solder Printed Circuit Board (PCB)	15A 15A	10A 10A	7.5A 7.5A	7.5A 7.5A	5A 5A	
	Typical Contact Resistance	≤3mΩ					
	Insulation Resistance ≥1000MΩ						
CLIMATIC Characteristics	Protection Class	IP40					
	Operating Temperature		-25°C to	) +75°C (-13°F to	+167°F)		
MECHANICAL Characteristics	Weight - Metal 2)	31g	32g	33g	33g	33g	
		(0.068lb)	(0.070lb)	(0.072lb)	(0.072lb)	(0.072lb)	
	Mechanical Operations			1000 mating cycle	es.		
MATERIALS	Connector Shell	Diecast Zinc Alloy					
	Shell Finish		Satin	Nickel or Black Po	lyester		
	Insulators	PA66 30% Glass Filled Resin					
	Male Contact						
	Stamped Solder and PCB-(Material/Plating)	) Phosphor Bronze / Silver or Gold (optional)					
	Machined Solder-(Material/Plating)	Brass / Silver or Gold (optional)					
	Female Contact						
	Stamped Solder and PCB-(Material/Plating)		Phosphor	<sup>r</sup> Bronze / Tin or Go	ld (optional)		
	Machined Solder-(Material/Plating)	Brass / Silver or Gold (Optional)					

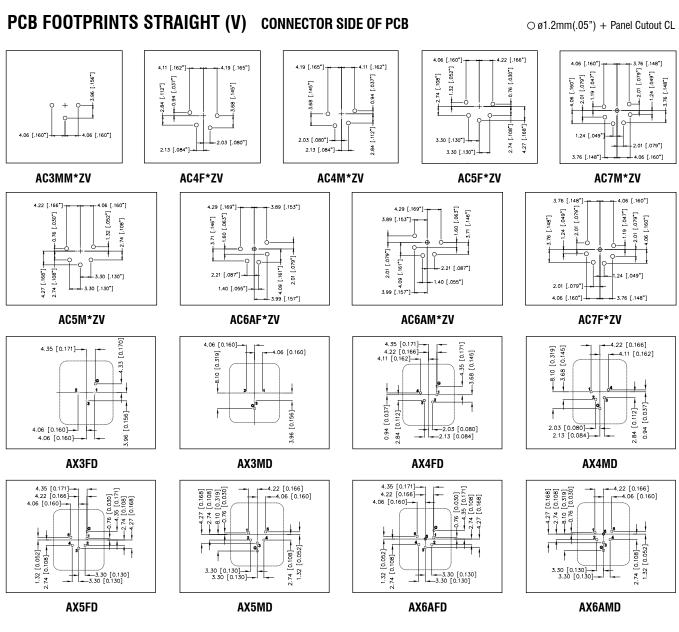
 $^{\scriptscriptstyle 1)}\mbox{Not}$  suitable for domestic applications above 50V

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

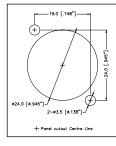


Rev 4 - 02/2020

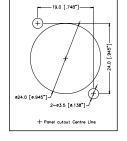
## AC / AX SERIES CHASSIS METAL "Z"



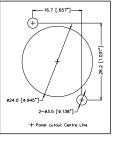
### PANEL CUTOUT DIMENSIONS FRONT VIEW



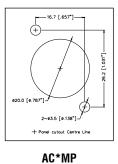
AC\*FDZ / AX\*FD



AC\*MDZ / AX\*MD



AC\*FPZ



e20.0 [\$.787"] 2~=3.5 [\$.138"] + Panel culcul Centre Line





### XLR Connectors AC Series PCB Chassis Mount



#### The AC series, A and B 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

Features

flexibility in design.

- 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
- A type is available in 3, 4 or 5 contacts.
- · B type is available in 3 contact only.
- Compatible with all other XLR brands.
- Metal Mounting Flange (B type)

### **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
- Integrated Switch

#### **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.

## AC SERIES XLR PCB CHASSIS MOUNT CONNECTORS

## Simple steps to guide you in using this catalogue

- 1) Identify the product group listed in Contents on page 1 and go directly to that page number.
- 2) Each product group cover page then details information and options available.
- 3) Refer to the product detail pages and identify the product you require pictorially.
- 4) Read the product description column for the products standard features.
- 5) Use variations column to determine your choice.
- 6) Identify part number.
- 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.



### XLR Connectors AC Series PCB Chassis Mount (A Type)



#### Features:

- Thermoplastic Shell
- Contact layouts in 3,4 or 5
- 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:** Vertical or Horizontal PCB, Various grounding methods, Latching or Non-Latching.

Part Number Breakdown: Page 36 Specifications: Page 39PCB Footprints: Page 40Panel Cutouts: Page 41Recommended Fastener: Page 133

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	GROUND LINK VARIATIONS	PART NUMBER
	25.4 [.998"] 		XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3MAH-AU-PRE
	25.4 [.998"] [.906"] 		XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to Mating connector shell	AC3MAH1-AU-PRE
	25.4 [.998"] 		XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground	AC3MAH2-AU-PRE
			XLR 3 pole male with integrated switch, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis to PCB, Pin 1 sep. Ground	AC3MAH4-SW-B
	25.4 [.998"] 		XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3MAV-AU-PRE



### AC Series PCB Chassis Mount (A Type)

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	GROUND LINK VARIATIONS	PART NUMBER
	25.4 [996] (996] (1966) VE (106)		XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground	AC3MAV2-AU-PRE
		-24.0 [945] 19.5 [768] -19.5 [768] -2.7 [106]	XLR 3 pole male, Solder Buckets, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3MA-AU-B
			XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAH-AU-PRE
			XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to Mating connector shell	AC3FAH1-AU-PRE
			XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground	AC3FAH2-AU-PRE
			XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAHL-AU-PRE
			XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to mating connector shell	AC3FAHL1-AU-PRE
			XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground.	AC3FAHL2-AU-PRE
C	26.5 [ 998']	-3.2 (.126") -19.5 (.768") -19.5 (.768") -19.5 (.139") -19.5 (.139") -19	XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAV-AU-PRE
	2.5.3 [.996"] (USP)	-3.2 [.126 <sup>-</sup> ] -19.5 [.768 <sup>-</sup> ] -19.5 [.768 <sup>-</sup> ] -19.5 [.138 <sup>-</sup> ] -19.8 [.779 <sup>-</sup> ] -10.8 [	XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to Mating connector shell	AC3FAV1-AU-PRE



AC Series PCB Chassis Mount (A Type)

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	GROUND LINK VARIATIONS	PART NUMBER
C	25.5 [.998] PUSH FUSH	5.2 [:26 <sup>+</sup> ] 19.5 [:76 <sup>+</sup> ] 19.5 [:76 <sup>+</sup> ] 1.5 <sup></sup>	XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground.	AC3FAV2-AU-PRE
O	25.5 [.998]		XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAVL-AU-PRE
	25.3 [.998"] -25.3 [		XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to Mating connector shell	AC3FAVL1-AU-PRE
	25.3 [.998"]		XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground.	AC3FAVL2-AU-PRE
Ó			XLR 4 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground	AC4MAH-AU-B
			XLR 5 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis to PCB, Pin 1 sep. Ground	AC5MAH-AU-B
			XLR 5 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis to PCB, Pin 1 sep. Ground	AC5MAV-AU-B
		3.2 [.125"] 19.5 [.768"] (.88"] (.105"] (.10	XLR 5 pole female, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis to PCB, Pin 1 sep. Ground	AC5FAH-AU-B
6		3.2 [125"] 19.5 [768"] 24 [345"] 24 [345"] 27.5 [108"] 27.5 [108"]	XLR 5 pole female, Vertical PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis to PCB, Pin 1 sep. Ground	AC5FAV-AU-B



AC Series PCB Chassis Mount (B Type)

#### Features:

- · Thermoplastic Shell with Metal Mounting Flange
- Contact layouts in 3 or 5
- Industry standard PCB footprints
- Improved grounding performance
- 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 36	Specifications: Page 39
PCB Footprints: Page 40	Panel Cutouts: Page 41
Recommended Fastener: Page 133	

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION/ Ground Link	MOUNTING FLANGE Variations	PART NUMBER
			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3MBH-AU-PRE
			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis to Mating connector shell	Nickel Finish	AC3MBH1-AU-PRE
			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack Mating connector shell to Chassis - Pin 1 sep. Ground	Nickel Finish	AC3MBH2-AU-PRE
			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack Mating connector shell to Pin 1	Nickel Finish	AC3MBH3-AU-PRE
			XLR 3 pole male, Horizontal PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3MBHL-AU-PRE
			XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3MBV-AU-PRE



AC Series PCB Chassis Mount (B Type)

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION/ Ground Link	MOUNTING FLANGE Variations	PART NUMBER
	25.5 [.996"]		XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis to Mating connector shell	Nickel Finish	AC3MBV1-AU-PRE
	25.5 [ 996"] -25.5 [		XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack Mating connector shell to Chassis - Pin 1 sep. Ground	Nickel Finish	AC3MBV2-AU-PRE
			XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack Mating connector shell to Pin 1	Nickel Finish	AC3MBV3-AU-PRE
	25.3 [996"] (PU SH) (PU		XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3FBH-AU-PRE
	25.3 [ 996"] PUSH PUSH 2.7 [ 106"]-		XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis to Mating connector shell	Nickel Finish	AC3FBH1-AU-PRE
	25.3 [.996"] PUSH ST T T T T T T T T T T T T T		XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack Mating connector shell to Chassis - Pin 1 sep. Ground	Nickel Finish	AC3FBH2-AU-PRE
	25.3 ( 396 <sup>°</sup> ) PUSH Sec. ( 100 <sup>°</sup> )- 2.7 ( 100 <sup>°</sup> )-		XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis	Nickel Finish	AC3FBH3-AU-PRE
			XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3FBHL-AU-PRE



### AC Series PCB Chassis Mount (B Type)

PRODUCT	DRAWING Dimensions in mm (inches)	DESCRIPTION/ GROUND LINK	FINISH	PART NUMBER
		XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack Pin 1 to Chassis to mating connector shell	Nickel Finish	AC3FBHL1-AU-PRE
		XLR 3 pole female, Horizontal PCB, Non- Latching Type, Gold Plated Contacts, Bulk Pack Mating connector shell to Chassis - Pin 1 sep. Ground.	Nickel Finish	AC3FBHL2-AU-PRE
		XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack Pin 1 to Chassis	Nickel Finish	AC3FBHL3-AU-PRE
ĨO.		XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3FBV-AU-PRE
ĨO.		XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis to mating connector shell	Nickel Finish	AC3FBV1-AU-PRE
ĨO.		XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack Mating connector shell to Chassis - Pin 1 sep. Ground.	Nickel Finish	AC3FBV2-AU-PRE
ĨO.		XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis	Nickel Finish	AC3FBV3-AU-PRE
		XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3FBVL-AU-PRE



AC Series PCB Chassis Mount (B Type)

PRODUCT	DRAWING Dimensions in mm (inches)	DESCRIPTION/ GROUND LINK	FINISH	PART NUMBER
		XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis to Mating connector shell	Nickel Finish	AC3FBVL1-AU-PRE
		XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack Mating connector shell to Chassis -Pin 1 sep. Ground.	Nickel Finish	AC3FBVL2-AU-PRE
	2.7 [.106 <sup>*</sup> ]	XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis	Nickel Finish	AC3FBVL3-AU-PRE
(Pusa)	3.2 [.125"] -19.8 [.780"] -19.5 [.768"] -19.5 [.	XLR 5 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Nickel Finish	AC5FBH-AU-PRE
Õ.	3.2 [.125"] -19.8 [.780"] -19.5 [.768"] -19.5 [.	XLR 5 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Nickel Finish	AC5FBV-AU-PRE
Đ.		XLR 5 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Nickel Finish	AC5MBH-AU-PRE
	-19.8 [.780"]-1 -19.8 [.780"]-1 -24 [.945"] -25 [.984"] -25 [.984"] -20 04 -20 04 -20 04 -20 04 -27.5 [1.083"] -2.7 [.106"]	XLR 5 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	Nickel Finish	AC5MBV-AU-PRE

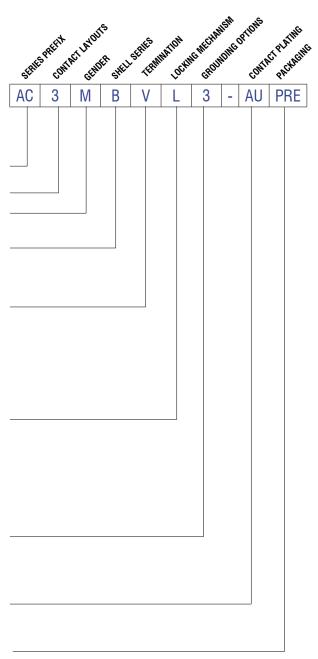


**AC Series PCB Chassis Mount** 

# PART NUMBER BREAKDOWN

AC SERIES A AND B TYPE MALE - 3 CONTACT

E. G. AC3MAVL3-AU PRE AC (series prefix).3 contacts, Male, A Type, Vertical Printed Circuit Board, Latchless, 3 (Mating Shell to Pin 1 Grounding), - AU (Gold Plated Contacts), PRE Bulk Packaged.					
SERIES PREFIX	AC	=	Series Prefix		
CONTACT LAYOUT	3	=	3 Contact only		
GENDER	М	=	Male Socket Contacts		
SHELL SERIES	A B	= =	А Туре В Туре		
	н	=	Horizontal Printed Circuit Board		
TERMINATION	V	=	Vertical Printed Circuit Board		
	Blank	=	Solder Bucket Contacts		
MOUNTING Flange Finish (B type only)	Blank	=	Nickel		
LOCKING	Blank	=	Latching		
MECHANISM	L	=	Latchless		
	Blank	=	No Ground Link		
	1	=	Pin 1 to Chassis to mating connector shell		
GROUNDING LINK Options	2	=	Mating Connector shell to Chassis, Pin 1 to separate ground		
	3	=	Mating connector to Pin 1		
	4	=	Mating connector to Shell to Chassis to PCB, Pin 1 separate ground		
	AU	=	Gold Plated Contacts		
CONTACT PLATING	AG	=	Silver Plated Contacts (Non-Standard)		
PACKAGING	PRE	=	Bulk Packed		
FAUKAUINU	PRD	=	Disassembled push latch		

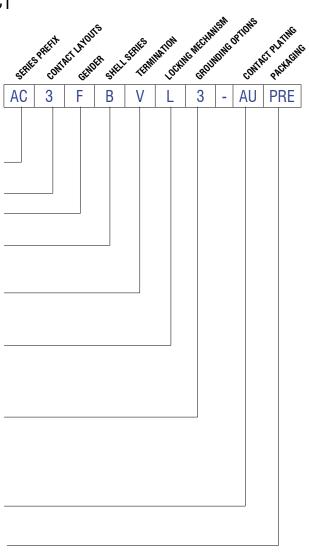




# PART NUMBER BREAKDOWN

AC SERIES A AND B TYPE FEMALE - 3 CONTACT

	Pin 1 to (		e, <b>A</b> Type, Vertical Printed Circuit Grounding), - <b>AU</b> (Gold Plated Contacts),
SERIES PREFIX	AC	=	Series Prefix
CONTACT LAYOUT	3	=	3 Contact only
GENDER	F	=	Female Socket Contacts
SHELL SERIES	A B	=	А Туре В Туре
TERMINATION	H V	=	Horizontal Printed Circuit Board Vertical Printed Circuit Board
LOCKING Mechanism	Blank L	=	Latching Latchless
GROUNDING LINK OPTIONS	Blank 1 2 3	= = =	No Ground Link Pin 1 to Chassis to mating connector shell Mating Connector shell to Chassis, Pin 1 to separate ground Pin 1 to Chassis
CONTACT PLATING	AU AG	=	Gold Plated Contacts Silver Plated Contacts (Non-Standard)
PACKAGING	PRE PRD	=	Bulk Packed Disassembled push latch

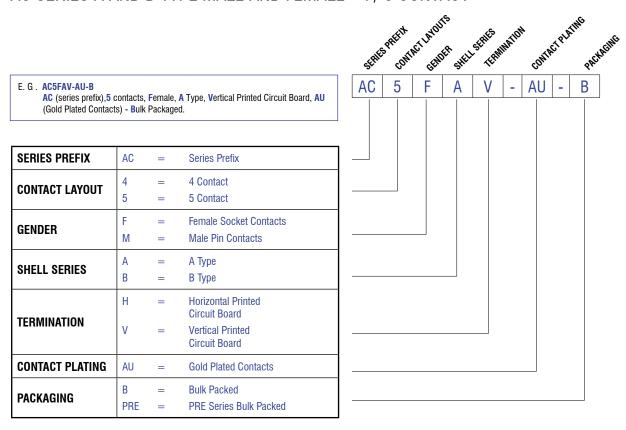




**AC Series PCB Chassis Mount** 

# PART NUMBER BREAKDOWN

AC SERIES A AND B TYPE MALE AND FEMALE - 4 / 5 CONTACT





# **STANDARD DATA AC SERIES A AND B TYPE CHASSIS**

		VALUE						
GENERAL Characteristics	Number of contacts	3	4	5				
	Contact Arrangements (Front view of pin insert)							
	Termination		Printed Circuit Board (PCB)	l				
	Flammability rating of plastics		UL94V-0					
	Environmental	Complie	es with EU RoHS 2 Directive 201	1/65/EU				
ELECTRICAL Characteristics	Service Voltage RMS		133V <sup>1</sup>					
CHARACIERISIICS	Test Voltage AC RMS		1500V					
	Current carrying capacity	6	6A	3A				
	Typical Contact Resistance		≤5mΩ					
	Insulation Resistance (initial)		≥2GΩ					
	Insulation Resistance (after damp heat test)		≥ <b>1</b> GΩ					
CLIMATIC	Protection Class	IP40						
CHARACTERISTICS	Operating Temperature	-25°C to +75°C (-13°F to +167°F)						
MECHANICAL	Weight <sup>2</sup>	14g (0.030lb)						
CHARACTERISTICS	Retention Spring separating force		≥20N					
	Mounting Screw torque max.		1.5Nm					
	Mechanical Operations		1500 mating cycles					
	Fastening A Type Connectors <sup>3</sup>	Self-Tapping PT screw	with thread 2.9 x 1.06 and of Tr	ri-rondular configuration				
	Fastening B Type Connectors <sup>3</sup>		Self-Tapping screw M2.5					
MATERIALS	Connector Flange - B-Type		Diecast Zinc Alloy					
	Flange Finish - B-Type		Nickel					
	Insulators	PA6.6+25% glass fibre reinforced, UL94V-0						
	Male Contact Material	Brass						
	Male Contact Plating	0.05µm gold over 2µm nickel						
	Female Contact Material	Bronze						
	Female Contact Plating		$0.05 \mu m$ gold over $2 \mu m$ nickel					
	Latch lock and Spring		Spring Steel					
	Ground element		Spring Steel					

 $^{\rm 1}\,\rm Not$  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.

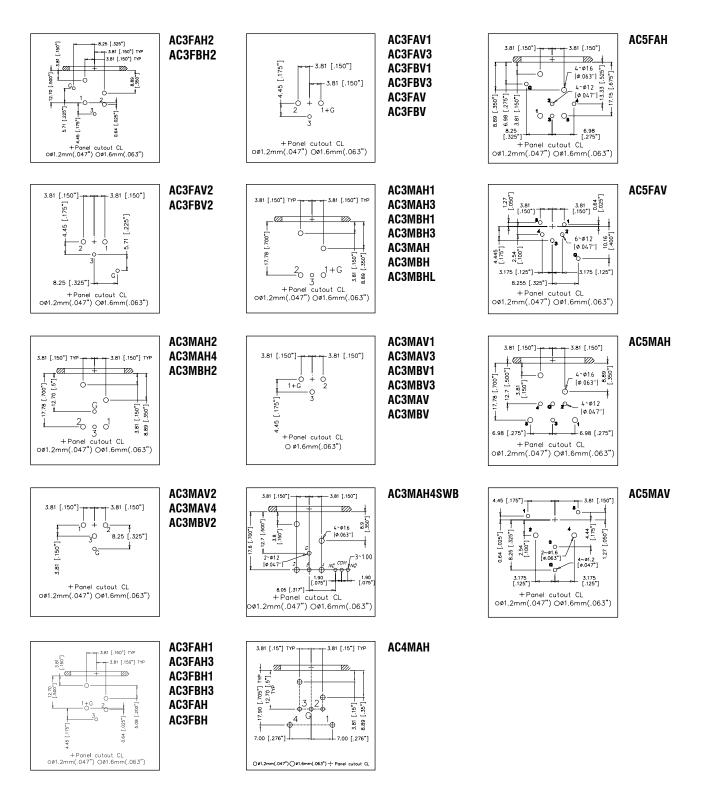
<sup>3</sup> Refer to page 133



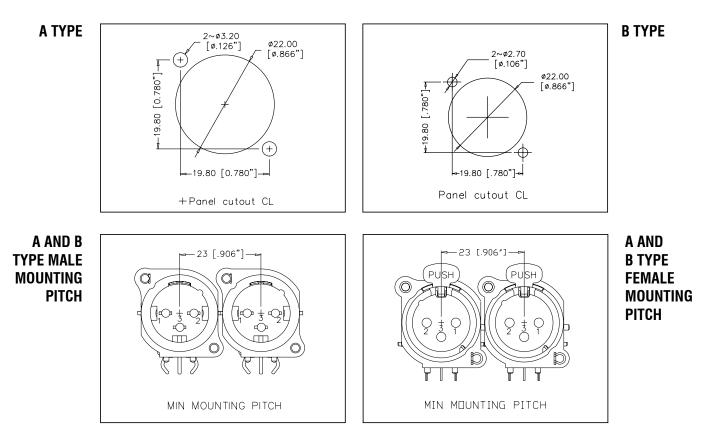
Rev 11 - 08/2016

# AC SERIES A AND B TYPE CHASSIS

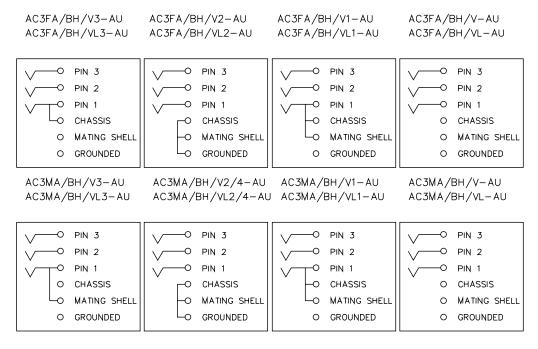
PCB FOOTPRINTS - CONNECTOR SIDE OF PCB



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



# **AC3FA/BH/V SCHEMATIC CHART**





AC Series Dual 1/4" (6.35mm) / XLR Chassis Mount



# AC SERIES DUAL 1/4" (6.35mm) / XLR

The AC Series C type chassis receptacles feature two connectors in the one space saving housing. A combined XLR female receptacle together with a 6.35mm (1/4") phone jack give the designer more flexibility ensuring premium board space is saved. The new low profile high density C type offers a 15% space saving over the traditional C type. Various configurations are available in either stereo or mono layouts with Vertical, Horizontal Printed Circuit Board or Solder contacts.

### **Ordering Codes**

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

# Simple steps to guide you in using this catalogue

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- 6) Identify part number.
- In the event the particular option you require is not listed please refer to the part number breakdown page at the end of each section.
- 8) Please contact us directly if you have any further problems.

Amphenol Turkey&MiddleEast

### Features

- · Standard or low profile / high density shell design
- Two connectors in the one housing. Industry standard PCB footprint layout
- on standard C type.
- Vertical or Horizontal PCB mounting.
  Bulk packed.
- Positive latch lock system (XLR).

### Options

- Solder contacts
- · Vertical PCB contacts
- · Horizontal PCB contacts
- Bulk Packaging
- · Overmoldable connector housing

### AC Series Dual 1/4" (6.35mm) / XLR Chassis Mount



### Features:

- Two connectors in the one housing.
  Low profile design offers a 15% space saving over the traditional design.
  Vertical or Horizontal PCB mounting.
- Bulk packed in trays, 100 to a box as standard.
  Positive latch lock system (XLR).

Part Number Breakdown: Page 48 Specifications: Page 50 PCB Footprints: Page 49 Recommended Fastener: Page 133

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		SCHEMATIC CHART JACK XLR JACK 00 0 0 0 0 0 0 0 0 0 0 0 0	Low Profile XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Horizontal PCB mount, Bulk Pack	Latching	ACJC6AH BULK
10	966 105 SZ - 25 30 ( 996)	SCHEMATIC (HART JACK XLR JACK 003 0 2 0 1 0 6	Low Profile XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC6AHL BULK
0	19 80 1 781 19 80 1 781	24.0 [945] 31.146 SCHEMATIC CHART JACK X.R 0 0 0 0 0 0 0 0 0 0 0 0 0	Low Profile XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Vertical PCB mount, Bulk Pack	Latching	ACJC6AV2 BULK
		24 0   945  → 37   146      SCHEMATIC CHART     JACK XLR     JACK XLR     JACK XLR     JACK 0   945  → 0   0   0   0   0   0   0   0   0	Low Profile XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC6AV2L BULK
	-19 80   78 - (966   00 52 	275 [1082] SCHEMATIC CHART JACK SCHEMATIC CHART SCHEMATIC CHART JACK SCHEMATIC CHART SCHEMATIC CHART SCHEMA	Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack, Horizontal PCB mount, Bulk Pack	Latching	ACJC9AH BULK
	966 10:52 HH P P M -25 30 (196)	275 11082	Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC9AHL BULK

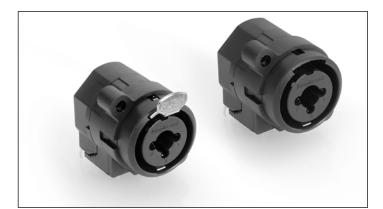


AC Series Dual 1/4" (6.35mm) / XLR Chassis Mount

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		-24 0 [ 945] -24 0 [ 945] -24 0 [ 945] -24 0 [ 945] -37   146  SCHEMATIC CHART JACK XLR -37   146  SCHEMATIC CHART JACK XLR -37   146  SCHEMATIC CHART JACK - 37   146  SCHEMATIC CHART SCHEMATIC C	Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack, Vertical PCB mount, Bulk Pack	Latching	ACJC9AV2 BULK
		24.0   945	Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC9AV2L BULK
	19 80   78  (166   25 12) 106   78  106   78  106   78  108   10 108   10 108   10 108   10 108   10 108   10 108   108	-275 [1082] SCHEMATIC CHART JACK SCHEMATIC CHART SCHEMATIC CHART JACK SCHEMATIC CHART SCHEMATIC CHART SCHEM	Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Horizontal PCB mount, Bulk Pack	Latching	ACJC10AH BULK
	-1980   78] 	-275 [1082] -275 [108] -275 [10	Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC10AHL BULK
		-24.0[945] -24.0[945] -24.0[945] -24.0[945] -24.0[945] -37[156] SCHEMATIC CHART JACK XLR JACK XLR JACK 03 -06 -06 -06 -06 -06 -06 -06 -06	Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Vertical PCB mount, Bulk Pack	Latching	ACJC10AV2 BULK
		24.019451 3711461 SCHEMATIC CHART JACK 38 02 03 01 05 06 06 06 06 06 06 06 06 06 06	Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC10AV2L BULK



**XLR Connectors** AC Series Dual 1/4" (6.35mm) / XLR Chassis Mount



#### Features:

- Features:
  Two connectors in the one housing.
  Space saving design.
  Industry standard PCB footprint layout.
  Vertical or Horizontal PCB mounting.
  Bulk packed in trays, 100 to a box as standard.
  Positive latch lock system (XLR).

Part Number Breakdown: Page 48 Specifications: Page 50 PCB Footprints: Page 49 Recommended Fastener: Page 133

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
S.C.		24 [945"] 10.6 [417] SCHEMATIC CHART 402 XLR 0 3 0 1 0 0 7 [276"]	XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Horizontal PCB mount, Bulk Pack	Latching	ACJC5H BULK
NO.		24 [945"] SCHEMARE CHART 400 X.R 0 3 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Horizontal PCB mount, Bulk Pack	Non-latching, Reten- tion Spring	ACJC5HL BULK
RO		-24 [945'] [106 -35 [139'] [417'] - SCHEMATIC CHART -35 [139'] - 400 - 312 	XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Vertical PCB mount, Bulk Pack	Latching	ACJC5V BULK
80		24 [945"] 55 [135"] 50 EMARE CHART 400 XLB 0 1 0 1 7 [276"]	XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Vertical PCB mount, Bulk Pack	Non-latching, Reten- tion Spring	ACJC5VL BULK
		-24 [945'] [106 A5 [177] [417] - SCHEMATIC CHART 400 NAR 400 NAR 7 [276']	XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Solder Contacts, Bulk Pack	Latching	ACJC5S BULK
SCO.		24 [945 <sup>7</sup> ] 45 [177] 40 X XR 40 X XR 40 X XR 0 2 0 2 0 1 7 [276]	XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Solder Contacts, Bulk Pack	Non-latching, Reten- tion Spring	ACJC5SL BULK



AC Series Dual 1/4" (6.35mm) / XLR Chassis Mount

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
RO		24 [945] [0.5] (417] SCHEMATIC CHARI 400 NR 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2	XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Horizontal PCB mount, Bulk Pack	Latching	ACJC6H BULK
10		24 [345"]→ 35HMARC CHART ACX 918 ACX 918 AC	XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC6HL BULK
80		24 [.949 <sup>-</sup> ] [.41 <sup>-</sup> ] 35 [.138 <sup>-</sup> ] [.41 <sup>-</sup> ] 30 K MAIL CHART MOX 94	XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Vertical PCB mount, Bulk Pack	Latching	ACJC6V BULK
RO.		-24 [.945'] -55 [.138'] -55 [.55 [.138'] -55 [.55 [.55 [.55 [.55 [.55 [.55 [.55 [	XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC6VL BULK
		24 [ 349 <sup>-</sup> ] - [ 10.6 4.5 [ 177 <sup>-</sup> ] - [ 41 <sup>-</sup> ] - G 4.05 [ 177 <sup>-</sup> ] - G 4.05 [ 177 <sup>-</sup> ] - G 4.05 [ 177 <sup>-</sup> ] - G 4.05 [ 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Solder Contacts, Bulk Pack	Latching	ACJC6S BULK
		24 [945] +5 [177] 402 <u>88</u> 402 <u>88</u> 0 1 0 6 1 (276] -5 (177] 402 <u>88</u> 0 2 0 1 0 6	XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Solder Contacts, Bulk Pack	Non-latching, Retention Spring	ACJC6SL BULK
NºCO			XLR 3 pole female receptacle with 1/4" switching stereo jack, Horizontal PCB mount, Bulk Pack	Latching	ACJC9H BULK
RO			XLR 3 pole female receptacle with 1/4" switching stereo jack, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC9HL BULK



AC Series Dual 1/4" (6.35mm) / XLR Chassis Mount

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
RO		-24 [.945] -35 [.135] -35 [.135] -417] -405 -50HMAIL CHART -405 -50 -50 -50 -50 -50 -50 -50 -	XLR 3 pole female receptacle with 1/4" switching stereo jack, Vertical PCB mount, Bulk Pack	Latching	ACJC9V BULK
80	27 [1063 <sup>7</sup> ] 20 [787 <sup>7</sup> ] (.000 <sup>6</sup> ] [20 (.000 <sup>6</sup> ] [20 10 [.394 <sup>4</sup> ]	-24 [945] -35 [137] 	XLR 3 pole female receptacle with 1/4" switching stereo jack, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC9VL BULK
		24 [945'] 10.6 45 [177'] 447'] 447'] 462 50HMATC-CHARI 462 50 2 7 [276'] 60 0 7 [276'] 60 0 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.7 10.7 10.6 10.7 10.7 10.6 10.7	XLR 3 pole female receptacle with 1/4" switching stereo jack, Solder Contacts, Bulk Pack	Latching	ACJC9S BULK
	27 [1:057] 20 [787] (	24 [945] 45 [177] 465 XE 465 XE 50 HMAIL CHARI 465 XE 50 J 50 J	XLR 3 pole female receptacle with 1/4" switching stereo jack, Solder Contacts, Bulk Pack	Non-latching, Retention Spring	ACJC9SL BULK
NO	22 [1002] 10 [394.] 10 [394.]		XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Horizontal PCB mount, Bulk Pack	Latching	ACJC10H BULK
RO	27 [1063 <sup>7</sup> ] 20 [787 <sup>7</sup> ] (		XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC10HL BULK
RO	27 [1005] 20 [287] 	24 [946"] 10.6 -3.5 [130"] 447] 402 3.8 -3.5 [130"] 447] 402 3.8 -3.5 [130"] -10.6 -3.5 [130"] -10.6	XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Vertical PCB mount, Bulk Pack	Latching	ACJC10V BULK
KO		24 [945] 4.5 [177] 305 XLB 305 XLB	XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC10VL BULK



### AC Series Dual 1/4" (6.35mm) / XLR Chassis Mount

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		24 [345'] 10.6 4.5 [177] 4171 4171 400 20.8 0 3 0 3 0 3 0 3 0 3 0 3 0 1 0 6 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Solder Contacts, Bulk Pack	Latching	ACJC10S BULK
	27 [1057] 10 [1394] 10 [1394]	24 [945] 4.5 [177] 4.5 [177] 4	XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Solder Contacts, Bulk Pack	Non-latching, Retention Spring	ACJC10SL BULK

# PART NUMBER BREAKDOWN

AC SERIES THERMOPLASTIC C TYPE

E. G. ACJC5HL BULK AC (Series Prefix), JC Jack/Connector XLR, 5 Mono, Horizontal Printed Circuit Board, Latchless, Bulk Packaged.

SERIES PREFIX	AC	=	Series Prefix
CONNECTOR TYPE	JC	=	Jack / Connector XLR
CONTACT OPTIONS	5 6 9 10	=	Mono, Non Switching, XLR Grounded Stereo, Non Switching, XLR Grounded Stereo, Switching, XLR Grounded Stereo, Switching, XLR with Ground Switch
HOUSING TYPE	Blank A	=	Standard Low Profile / High Density
CONTACT TYPE	V V2 H S	= = =	Vertical Pritned Circuit Board Vertical Printed Circuit Board (24mm) Horizontal Printed Circuit Board Solder Contacts
LOCKING Mechanism	Blank L	=	Latching Latchless
PACKAGING	Blank BULK PRD		Individual Bags Bulk Packed Disassembled push lever



CONTRET ORBITATION LOCHNEMETANSH

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PACKAGING

BULK

CONTACT OF TONS

HOUSINGTYPE

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COMMETOR THE

5

SERIES PREIN

AC

JC

6.15 [.242"]

[.228"]

8.0

7~ø1.20 [0.047"]

5.80 [.228"]

[.205"]

5.2

.20 [.205"]

6.15 [.242<sup>\*</sup>]

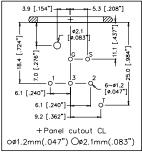
[.238"]

6.0

5.80 [.228\*]

[0.5 [.411<sup>\*</sup>]

# **AC SERIES C TYPE SERIES**



#### ACJC5H & ACJC5HL

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[.276"]

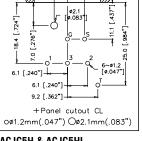
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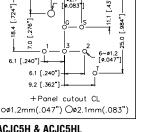
3.0 [.118"

6.1 [.240"]

.984"]

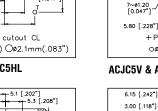
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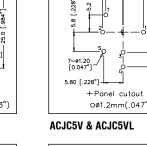
11.1 [.437"

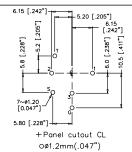
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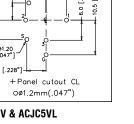
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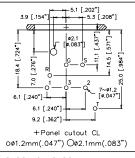
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L=- 14.5 [.571"]

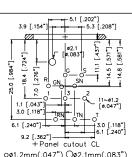


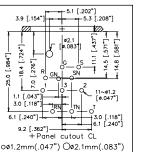




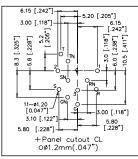






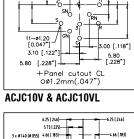


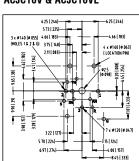
### ACJC6V & ACJC6VL



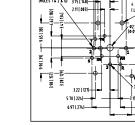
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0ø1.2mm(.047")



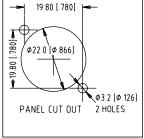


### ACJC9AV2 & ACJC9AV2L

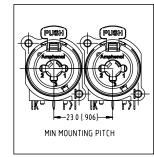


### 1 20 14 01 5 10 | 201| 6 25 | 246| 8 40 | 331|

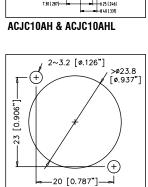




**C TYPE LOW PROFILE** PANEL CUTOUT

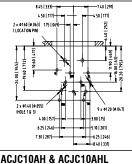


**C TYPE LOW PROFILE** MOUNTING PITCH

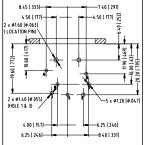


+Panel cutout CL

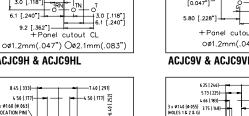
**C TYPE PANEL CUTOUT** 



### ACJC6AH & ACJC6AHL



### ACJC9H & ACJC9HL



### ACJC9V & ACJC9VL

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9.65 L38

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ACJC6AV2 & ACJC6AV2L 6 25 | 246

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845 [ 333]

Γ 5 70 | 224

ACJC10AV2 & ACJC10AV2L

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**C TYPE MOUNTING PITCH** 

MIN

.063"

0

MOUNTING PITCH

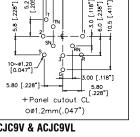
5 73 | 225

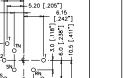
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3.22 | 127|

6 97 | 274

5.2 [.205"





6.25 | 246|

66 | 183

4 x Ø1.60 (Ø.063

7 × 0120 [0.047]

66 | 183

4 x Ø160 (Ø.063)

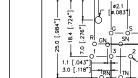
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ACJC10H & ACJC10HL

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x Ø1.60 [Ø.063]

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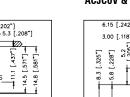
6 25 | 246|-

7.30 [.287]

ACJC9AH & ACJC9AHL

1/2

[697] 06'II





# Amphenol Turkey&MiddleEast

AC Series Dual 1/4" (6.35mm) / XLR Chassis Mount

# **STANDARD DATA C TYPE CHASSIS RECEPTACLES**

		VALUE				
		LOW PROFILE TYPE	STANDARD C TYPE			
GENERAL Characteristics	Number of contacts	5, 6, 9 or 10				
CHARACIERISIICS	Termination	Printed Circuit Board (PCB)	Printed Circuit Board (PCB) or Solder Bucket			
	Flammability	ULS	94HB			
	Environmental	Complies with EU RoHS	2 Directive 2011/65/EU			
ELECTRICAL	Service Voltage RMS	5	0V			
CHARACTERISTICS	Test Voltage AC RMS	15	00V			
	Current carrying capacity	7	5A			
	Typical Contact Resistance	≤50	)mΩ			
	Insulation Resistance (initial)	> 0.	5GΩ			
	Insulation Resistance (after damp heat test)	> 0.	2GΩ			
CLIMATIC	Protection Class	IF	40			
CHARACTERISTICS	Operating Temperature	-25°C to +70°C				
MECHANICAL	Weight**	9.2g (0.02lb)	14g (0.030lb)			
CHARACTERISTICS	Retention Spring separating force	≥20N				
	Mounting Screw 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 Shell Finish	PA6.6 + 30% glass fibre reinforced, UL94HB	PA6.6 + 20% glass fibre reinforced, UL94HB Black			
	Insulators	PA6.6 glass fibre reinforced, UL94HB	PA6.6 + 20% glass fibre reinforced, UL94HB			
	XLR Contact					
	Material	Bronze				
	Plating	Gold over Nickel plated				
	Jack Contact					
	Material	Bronze	Brass			
	Plating	Gold over Nickel plated	Silver over Copper plated			
	Latch lock and Spring	Nick	el Plated			
	Ground element	Nickel Plated	Silver over Copper plated			

\*\*Approximate weight in grams not including packaging. Please contact us for exact weight for shipping purposes.

\*\*\*Refer to Page 133



Rev 6 - 03/2013

### **XLR Connectors** G-Type Miniature XLR Connectors



#### Features:

- Miniature version of the standard XLR series
- Diecast or Precision machined metal housings
- Metal cable clamp
- Precision machined pin contacts
- Stamped socket contacts
- Solder cup or Printed Circuit board contacts
- Available in 3, 4, 5 or 6 contacts
- Postive latchlock
- Flexible cable grommet

Part Number Breakdown: Page 52 PCB Footprints: Page 54 Specifications: Page 53 Panel Cutouts: Page 54

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			Male cable connector,	3 pole	AG3M
	ø10.5 [.413"]		Machined contacts, Nickel Finish	4 pole	AG4M
	<u><u>v</u></u>			5 pole	AG5M
	La.	52 [2.055 <sup>™</sup> ]		6 pole	AG6M
			Female cable con-	3 pole	AG3F
Car.	610.5 [.413 <sup>-</sup> ]		nector, Stamped contacts,	4 pole	AG4F
		40.5 [1.596"]	Nickel Finish	5 pole	AG5F
	Ha	49 [1.910"]		6 pole	AG6F
	9[.	36 [1.398"]⊨ 339"]	Female cable connec-	3 pole	AG3FL
	· • 12.9 [.508"]		tor with locking ring, Stamped contacts,	4 pole	AG4FL
	.e12.9 [		Nickel Finish.	5 pole	AG5FL
5	16 [.634"]-			6 pole	AG6FL
	1.0 [.039 <sup>*</sup> ]	Male chassis	3 pole	AG3MCC	
	7/16"-32		connector, Machined contacts, Nickel Finish	4 pole	AG4MCC
				5 pole	AG5MCC
	2.0 [.079"]			6 pole	AG6MCC
	22.1 [.870"] 2.5 [.098"]	1.0 2.0 [.079"]	Female chassis connector, Stamped contacts, Nickel Finish	3 pole	AG3FCE
5-0				4 pole	AG4FCE
( and	-[e50]-	-165.] 289- 		5 pole	AG5FCE
	8.6 [.337"]	.8.4 [.333"]		6 pole	AG6FCE
	26.8 [1.056*]	-15.5 [.610"]	Male chassis	3 pole	AG3MCCH
			connector, Horizontal PCB,	4 pole	AG4MCCH
			Machined contacts, Nickel Finish	5 pole	AG5MCCH
	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓			6 pole	AG6MCCH
(MA)		1.0 [.707"]	Female chassis	3 pole	AG3FCCH
			connector, Horizontal PCB, Stamped contacts, Nickel Finish	4 pole	AG4FCCH
				5 pole	AG5FCCH
				6 pole	AG6FCCH

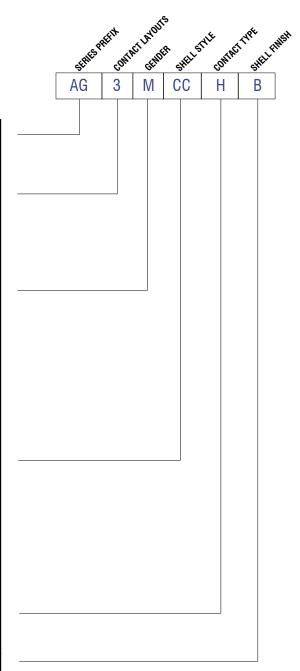


### XLR Connectors G-Type Miniature XLR Connectors

			4 pole	AG4MPCH
		Female chassis con-	3 pole	AG3FCRV
	-["1-25-] -["1-25-]	्रम् nector, ्रहे Stamped contacts,	4 pole	AG4FCRV
24.4	-24.4	Nickel Finish	5 pole	AG5FCRV
			6 pole	AG6FCRV

# **PART NUMBER BREAKDOWN** G TYPE CONNECTORS

E. G. AG3MCCHB AG (Series Prefix), 3 contacts, Male, Chassis Connector, Horizontal PCB Contacts, Black finish.							
SERIES PREFIX	AG	=	Series Prefix				
CONTACT LAYOUTS	3	=	3 Contacts				
	4	=	4 Contacts				
	5	=	5 Contacts				
	6	=	6 Contacts				
GENDER	F	=	Female Socket Contacts				
	М	=	Male Pin Contacts				
	Blank	=	Cable Connector Standard (Male or Female)				
SHELL STYLE	J	=	Cable Connector Large Cable clamp / boot O.D (Male or Female)				
	L	=	Cable Connector with locking ring (Female)				
	LL	=	Latchless (Chassis Connector)				
	CC	=	Chassis Connector Circular Metal (Male)				
	CE	=	Rear Mount (Chassis Connector)				
	СМ	=	Mid Mount (Chassis Connector)				
	CR	=	Chassis Connector Rectangular Metal (Female)				
	PC	=	Chassis Connector Plastic (Male)				
	Blank	=	Solder Buckets (All styles except PC, CR)				
CONTACT TYPE	Н	=	Horizontal PCB (Style CC, PC only)				
	V	=	Vertical PCB (Style CR only)				
	Blank	=	Nickel Plated Finish				
SHELL FINISH	В	=	Black Finish				





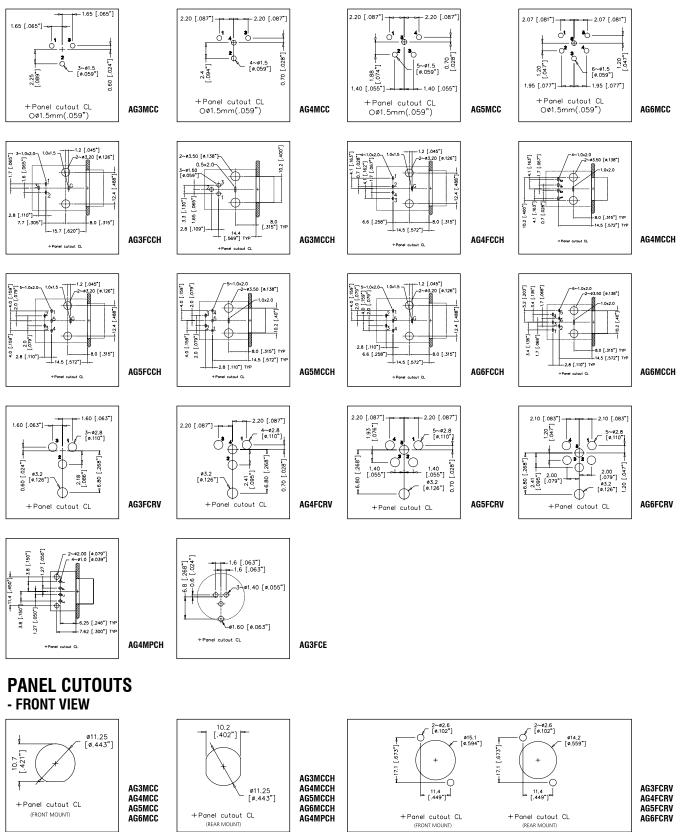
# **STANDARD DATA G TYPE**

		ſ		VA	LUE		
GENERAL	Number of 0	Contacts	3	4	5	6	
CHARACTERISTICS	Termination			Printed Circuit Board	(PCB) or Solder Bucket	t	
	Max. Wire G	auge - Stranded Wire		AWG 24 - 0.5mm <sup>2</sup>		AWG 28 - 0.38mm <sup>2</sup>	
	Flammability	/		UL94	4V-HB	<b>I</b>	
	Environmen	tal		Complies with EU RoHS	6 2 Directive 2011/65/I	EU	
ELECTRICAL	Current Carr	rying Capacity	5A	5A	4A	1.2A	
CHARACTERISTICS	Typical Cont	act Resistance		≤1	OmΩ	L. L	
	Insulation re After Damp	sistance (initial) Heat Test			0MΩ 0MΩ		
	Dielectric St	rength		1000 V dc		250 V dc	
CLIMATIC	Protection C	lass		IF	200	L	
CHARACTERISTICS	Operating Te	emperature		-30°C to +80°C	C (-20F - +176F)		
MECHANICAL	Insertion Spring Separating Force		≥20N				
CHARACTERISTICS	Cable O.D. Standard		2mm to 3.5mm (0.078" to 0.137")				
		Large clamp / boot (Option "J")	3mm to 5mm (0.118" to 0.196")				
	Mechanical	Operations	5000 mating cycles 2000 mat				
	Weight		13.5g (0.029lb)				
MATERIALS	Connector S	Shell	Bronze & Zinc				
	Connector S	Shell Finish	Nickel Plated				
	Insulators		PPS - Black				
	Male Contac	xt	Material - Brass C3604 Plating - Gold over Silver Plated				
	Female Con	tact	Material - Brass C5210P Plating - Gold over Silver Plated				
	Latch Lock	and Spring	SUS (AISI - 301) - Nickel Plated				
	Adaptor		PPS - Black				
	Cable Clam	)	Bronze - Nickel Plated				
	Boot/Backsl	nell		ABS	- Black		
	Grommet			PU -	Black		

<sup>1)</sup>Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes. Not suitable for voltages over 50V.



### PANEL CUTOUTS - CONNECTOR SIDE OF PCB





Amphenol Turkey&MiddleEast

### Speaker Connectors SP Series

# SP/EP/AP SERIES LOUDSPEAKER CONNECTORS

### **SP Series**

The SP Series are available in 2 or 4 pole chassis mount connectors. The durable thermoplastic housings are fitted with high power contacts to ensure optimal current carrying capacity. Completely intermatable with industry standard loudspeaker connections.

#### **Features**

- High current contacts for distortion free signal.
- Cost effective durable thermoplastic shell
- Available in 2 and 4 contact arrangements.
- Overmolded cable support boot or PG gland with or without cable support strain relief.
- Quick release, vibration resistant latch lock.
- UL, cUL recognized components
- (File no. E339831)
- Precision machined contacts
- Thermoplastic shell

#### **Options**

- Solder termination / Tab or Printed Circuit Board versions, Screw Terminals
- Nickel Plated Zinc Alloy shell
- Black finished Zinc Alloy shell

### **EP Series**

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.

#### Features

- High current contacts for distortion free signal.
- Tough, durable zinc diecast shell
- Cable clamp capable of supporting cables from 9mm (0.35") to 16mm (0.63") in diameter.
- Quick release, vibration resistant latch lock.
- AP & EP series are completely intermatable.
- Precision machined contacts

#### **Options**

- Nickel Plated Zinc Alloy shell
- Black finished Zinc Alloy shell
- Available in 3, 4, 5, 6 and 8 contact arrangements

### **AP Series**

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.
- Cost effective durable thermoplastic shell
- Quick release, vibration resistant latch lock.
- AP & EP series are completely intermatable.
- · Precision machined contacts
- · Thermoplastic shell

#### Options

• Available in 4, 5, 6, and 8 contact arrangements.

### **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.
- Use variations column to determine your choice.
- 6) Identify part number.
- In the event the particular option you require is not listed please refer to the part number breakdown page at the end of each section.
- Please contact us directly if you have any further problems.



## **Speaker Connectors**

**SP Series** 



# **SP SERIES**

Amphenol's range of loudspeaker connectors have been further enhanced with the introduction of the SP Series. Designed to complement the popular EP/AP Series, we now offer a range of loudspeaker connectors to suit most applications. SP Series chassis connectors are available in industry standard PCB footprints with solder tabs. SP Series cable plugs are available with screw or solder terminals.

### Features:

- Quick release, vibration resistant latch lock
  2 or 4 pole
- Solder tabs, PCB Contacts, Solder or Screw Terminals •

- Solder tabs, PCB Contacts, Solder of Screw Terminal
  Chuck type or PG Gland cable clamp
  Various mounting hole options
  30A Current rating
  Thermoplastic or Metal housing (Cable Plugs)
  UL, cUL recognized components (File no. E339831)
  Industry standard mating

### Part Number Breakdown: Page 60 PCB Footprints: Page 62

**Specifications: Page 64 Assembly Instructions: 63** 

c **SU**us

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	CONTACT Type	SHELL Colour	PART NUMBER
	[3.43"]		2 pole, Cable connector, Thermoplastic shell,	Screw	Black	SP-2-F
			Blue sleeve	Solder	Black	SP-2-FS
		111	2 pole, Cable connector, Thermoplastic shell,	Screw	Black	SP-2-FG
	*28 1109°1		Blue sleeve, PG Gland	Solder	Black	SP-2-FSG
(h)		179	2 pole, Cable connector, Thermoplastic shell,	Screw	Black	SP-2-FL
MARCINE CO			Blue sleeve, PG Gland strain relief	Solder	Black	SP-2-FSL
	87 [3.43"]	2 pole, Cable connector,	Screw	Nickel	SP-2-FN	
			Metal shell, Blue sleeve	Solder	Nickel	SP-2-FNS
				Screw	Black	SP-2-FB
		Solder		Black	SP-2-FBS	
		111	2 pole, Cable connector, Metal shell, Blue sleeve,	Screw	Nickel	SP-2-FNG
1 miles			PG Gland	Solder	Nickel	SP-2-FNSG
	¢ 28			Screw	Black	SP-2-FBG
			J	Solder	Black	SP-2-FBSG
COMMENT		170	2 pole, Cable connector,	Screw	Nickel	SP-2-FNL
	179 [7.06"]		Metal shell, Blue sleeve, PG Gland strain relief	Solder	Nickel	SP-2-FNSL
				Screw	Black	SP-2-FBL
				Solder	Black	SP-2-FBSL



# **Speaker Connectors**

SP Series

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	CONTACT Type	SHELL Colour	PART NUMBER
	87	4 pole, Cable connector, Thermoplastic black	Screw	Black	SP-4-F
A CONTRACTOR		shell, Blue sleeve	Solder	Black	SP-4-FS
	. 111	4 pole, Cable connector, Thermoplastic black	Screw	Black	SP-4-FG
		shell, Blue sleeve, PG Gland	Solder	Black	SP-4-FSG
0		4 pole, Cable connector, Thermoplastic black	Screw	Black	SP-4-FL
Sand Control		shell, Blue sleeve, PG Gland strain relief	Solder	Black	SP-4-FSL
	87	4 pole, Cable connector, Metal shell, Blue sleeve	Screw	Nickel	SP-4-FN
	[3.43]	Metal Shell, Blue Sleeve	Solder	Nickel	SP-4-FNS
A PA			Screw	Black	SP-4-FB
			Solder	Black	SP-4-FBS
•	. 111	4 pole, Cable connector, Metal shell, Blue sleeve,	Screw	Nickel	SP-4-FNG
		PG Gland	Solder	Nickel	SP-4-FNSG
			Screw	Black	SP-4-FBG
			Solder	Black	SP-4-FBSG
COMMENT		4 pole, Cable connector,	Screw	Nickel	SP-4-FNL
	179	Metal shell, Blue sleeve, PG Gland strain relief	Solder	Nickel	SP-4-FNSL
			Screw	Black	SP-4-FBL
			Solder	Black	SP-4-FBSL



# Speaker Connectors SP Series

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
(6		282 11.10°1 10.169°1 10.169°1 10.177°1 10.177°1	2 pole, D flange, Thru holes, Solder tabs 3/16"	Black	SP-2-MD
6		260 (1024'] (0224'] (0224'] (0224'] (0224'] (0224']	2 pole, D flange, Thru holes, Horizontal PCB	Black	SP-2-MDH
\$6,		265 (0.138')	2 pole, D flange, Thru holes, Vertical PCB	Black	SP-2-MDV
6	26.0 (1.024') 1.022'	28.2(1.110 <sup>-</sup> ) 4.8 (0.189 <sup>-</sup> ) 5.8 <sup>-</sup> ) 5.8 <sup>-</sup> ) - (0.177 <sup>-</sup> )	Airtight 4 pole, D flange Self Tapping holes, Solder Tabs 3.16"	Black	SP-4-MDAT
6.			Airtight 4 pole, D flange Thru holes, Solder tabs 3/16"	Black	SP-4-MDA
6.		282 (1.10°) (0.16°) (0.16°) (0.16°) (0.16°)	4 pole, D flange, Thru holes, Solder tabs 3/16"	Black	SP-4-MD
6.		282 (1)11 (1)17 (1)57 (1	4 pole, D flange, Thru holes, Solder tabs 3/16"	Grey	SP-4-MD-8
6		25 (0099) 25 (0177) 26 (0177) 25 (0177) 25 (0177) 25 (0177)	4 pole, D flange, Self Tapping holes, Solder tabs 3/16"	Black	SP-4-MDT



# **Speaker Connectors**

SP Series

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		1024-1 1024-1	4 pole, D flange, Thru holes, Horizontal PCB	Black	SP-4-MDH
6.	1-120 L0.740 J-T	5 (0.098') - 4.5 (0.177')	4 pole, D flange, Thru holes, Solder tabs ¼"	Black	SP-4-MDQ
10.			4 pole, D flange, Self Tapping holes, Horizontal PCB	Grey	SP-4-MDHT-8
10		25 (0098') 25 (0098') 25 (0077')	4 pole, D flange, Self Tapping holes, Horizontal PCB	Black	SP-4-MDHT
6.		25 (1098-) 25 (098-) 25 (1043-) 25 (1043-) 25 (1043-) 25 (1043-) 25 (1043-) 25 (1043-) 25 (1043-) 25 (1043-) 26 (1043-) (1043-) 26 (	4 pole, D flange, Thru holes, Vertical PCB	Black	SP-4-MDV
6		265 (1.043') (0.143') (0.138') (0.138') (0.138') (0.138') (0.138') (0.138')	4 pole, D flange, Thru holes, Vertical PCB	Red	SP-4-MDV-2
0		25 (0098r) 25 (0077r) 40 (0157r) 40 (0157r) 40 (0157r) 40 (0157r) 40 (0157r) 40 (0157r)	4 pole, D flange, Self Tapping holes, Vertical PCB	Grey	SP-4-MDVT-8
0.			4 pole, EP flange, Thru holes, Solder tabs 3/16"	Black	SP-4-MC



# PART NUMBER BREAKDOWN

**SP SERIES - CABLE CONNECTORS** 

			ector), N (Metal Shell Nickel Finish),
S (Solder Terminal	s), G (PG Glan	d)	
SERIES PREFIX	SP	=	Series Prefix
CONTACT LAYOUT	2	=	2 Contacts
	4	=	4 Contacts
GENDER	F	=	Cable Connector
SHELL FINISH	Blank	=	Thermoplastic - Black
	Ν	=	Metal - Nickel Finish
	В	=	Metal - Black Finish
TERMINATION	Blank	=	Screw Terminals
	S	=	Solder Terminals
BACKSHELL TYPE	Blank	=	Standard
	G	=	PG Gland
	L	=	PG Gland Strain Relief
PACKAGING	Blank	=	Individual Bags
	В	=	Bulk Packed
	B1	=	Supplied with small and large cable clamps



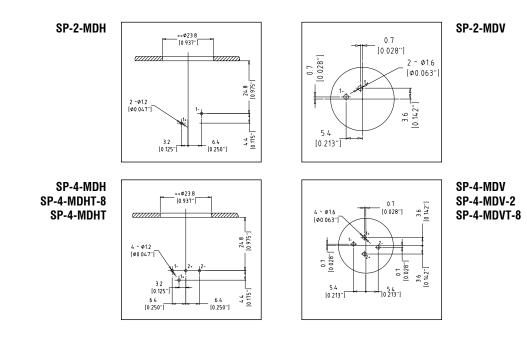
# PART NUMBER BREAKDOWN

SP SERIES - CHASSIS CONNECTORS

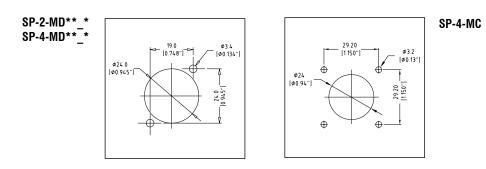
E. G. SP-4-MDHT-8B SP (Series Prefix),4 Circuit Board, Self T	contacts, <b>M</b> ( apping mour	Chassis Con nting holes -	nector), D (D Shell), Horizontal Printed 8 (Grey), Bulk Packaged.
SERIES PREFIX	SP	=	Series Prefix
CONTACT LAYOUT	2	=	2 Contacts
	4	=	4 Contacts
GENDER	М	=	Chassis Connector
SHELL STYLE	D	=	Standard 'D' Type flange
	С	=	EP Series Circular flange
TERMINATION	Blank	=	Solder tabs - 3/16" terminals
	Q	=	Solder tabs - 1/4" terminals
	V	=	Vertical Printed Circuit Board
	Н	=	Horizontal Printed Circuit Board
MOUNTING HOLE	Blank	=	Thru Hole
	Т	=	Self Tapping
SHELL COLOUR	Blank	=	Black
	2	=	Red
	8	=	Grey
PACKAGING	Blank	=	Individual Bags
	В	=	Bulk Packed



# **SP SERIES**



### **SP SERIES PANEL CUTOUT**





### Speaker Connectors SP Series

PI 1070

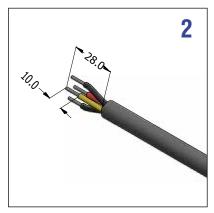
**ASSEMBLY** 

**INSTRUCTIONS** 

**SP SERIES CABLE CONNECTOR** 



Slide the nut onto the cable



Strip the cable and twist the conductors.



Install the cable clamp, flush to the insert making sure to align the slot as shown in the picture.



Orientate the insert and cable clamp as shown then push all together into the shell.



Thread the nut onto the shell to activate the cable clamp and close the connector assembly.



Insert the conductors into the rear of contacts on the insert. Tighten the screws to 0.35Nm (3.0 lb-in) using a flat screwdriver with tip width of 2.5mm max.



# **STANDARD DATA SP SERIES CONNECTORS**

		VALUE		
GENERAL	Number of contacts	2 or 4		
CHARACTERISTICS	Termination (Chassis)	Printed Circuit Board (PCB) or Solder Tabs 3/16"		
	Termination (Cable Plugs)	Screw or Solder Terminals		
	Flammability	UL94HB		
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU		
ELECTRICAL	Service Voltage RMS	133V <sup>1)</sup>		
CHARACTERISTICS	Test Voltage AC RMS	1500V		
	Current carrying capacity	30A		
	Typical Contact Resistance	≤3mΩ		
	Insulation Resistance (initial)	≥2GΩ		
	Insulation Resistance (after damp heat test)	≥1GΩ		
CLIMATIC	Protection Class (Mated Condition)	IP20 (IP40)		
CHARACTERISTICS	Operating Temperature	-25°C to +75°C (-13°F to +167°F)		
MECHANICAL	Weight** - Chassis Connectors	12g (0.026lb)		
CHARACTERISTICS	Weight** - Cable Plug - Thermoplastic - Metal	44g (0.097lb) 65g (0.143lb)		
	Weight** - Cable Plug PG - Thermoplastic - Metal	44g (0.097lb) 65g (0.143lb)		
	Weight** - Cable Plug PG S/Relief - Thermoplastic - Metal	68g (0.150lb) 89g (0.196lb)		
	Typical Cable retention force	200N (Subject to cable material and O.D.)		
	Cable O.D range - Chuck Clamp - PG16 Gland - PG16 Gland S/Relief	$\begin{array}{ccccccc} 2 \text{ pole} & 4 \text{ pole} \\ 5-10 \text{mm} & (0.19" - 0.39") & 9-14 \text{mm} & (0.35" - 0.55") \\ 6-12 \text{mm} & (0.23" - 0.47") & 8-14 \text{mm} & (0.31" - 0.55") \\ 9-14 \text{mm} & (0.35" - 0.55") & 9-14 \text{mm} & (0.35" - 0.55") \end{array}$		
	Conductor Size - Screw Terminals - Solder Bucket	1.5mm² - 4mm² (AWG16 - AWG12) 1.5mm² - 6mm² (AWG16 - AWG10)		
	Mechanical Operations	5000 mating cycles		
MATERIALS	Connector Shell / Finish - Cable Plug Thermoplastic - Cable Plug Metal	PA66 GF30 / Black Diecast Zinc Alloy / Nickel or Black		
	Insulators - Chassis - Cable Plugs	PA66 GF20 PA66 GF30		
	Cable Boot / Backshell	Santoprene / PA6 GF 15		
	Cable Clamp (Chuck)	P.O.M		
	Cable Clamp (PG)	Polyemide / EPDM		
	Sleeve	PBT		
	Contact Chassis - Material / Plating Contact Cable Plug	Phosphor Bronze / Silver		
	- Material / Plating	Brass / Silver		

\*\*Approximate weight in grams not including packaging. Please contact us for exact weight for shipping purposes. <sup>1</sup>Not suitable for domestic applications above 50V



Rev 6 - 06/2019

**Specifications: Page 68** 



# **EP SERIES**

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.

Options: Black Finish Shell Panel Cutouts: Page 69

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			EP Male cable connector,	3 pole nickel finish	EP-3-12
		ONBHINV	Machined contacts, Metal Shell	3 pole black finish	EP-3-12B
		64.0 [2.521"]		4 pole nickel finish	EP-4-12
		3.366"]		4 pole black finish	EP-4-12B
				5 pole nickel finish	EP-5-12
		Į,		5 pole black finish	EP-5-12B
	PIN INSULA	ATOR SHELL	RLE CLAMP BUSHING	6 pole nickel finish	EP-6-12
ISO ASSEMBLY OF EP MALE				6 pole black finish	EP-6-12B
	E F			8 pole nickel finish	EP-8-12
				8 pole black finish	EP-8-12B
			EP Female cable	3 pole nickel finish	EP-3-11P
15		connector, Machined contacts, Metal Shell	3 pole black finish	EP-3-11PB	
A Contraction			4 pole nickel finish	EP-4-11P	
		66.8 [2.63*]		4 pole black finish	EP-4-11PB
6				5 pole nickel finish	EP-5-11P
ISO ASSEMBLY OF EP FEMALE		<u> </u>		5 pole black finish	EP-5-11PB
	PIN INSU		CLAMP BUSHING	6 pole nickel finish	EP-6-11P
				6 pole black finish	EP-6-11PB
				8 pole nickel finish	EP-8-11P
				8 pole black finish	EP-8-11PB



# Speaker Connectors EP Series

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		EP Male chassis	3 pole nickel finish	EP-3-14
		mount, Round Flange, Machined contacts, Metal Shell	3 pole black finish	EP-3-14B
		Metal Shell	4 pole nickel finish	EP-4-14
			4 pole black finish	EP-4-14B
	AMPRENOL       -29.2 [1.148"]       6 pole nickel finish         • 50.8 [•2"]       -31.8 [1.252"]       6 pole black 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
			8 pole black finish	EP-8-14B
		EP Female chassis	3 pole nickel finish EP-3-	EP-3-13P
		mount, Round Flange, Machined contacts,	3 pole black finish	EP-3-13PB
	Metal Shell	Metal Shell	4 pole nickel finish	EP-4-13P
E.O		4 pole black finish	EP-4-13PB	
	292 TI.1481-		5 pole nickel finish	EP-4-14 EP-4-14B EP-5-14 EP-5-14B EP-6-14 EP-6-14B EP-8-14 EP-8-14B EP-8-14B EP-3-13P EP-3-13PB EP-3-13PB
			5 pole black finish	
			6 pole nickel finish	
			6 pole black finish	EP-6-13PB
			8 pole nickel finish	EP-8-13P
			8 pole black finish	EP-8-13PB





# **AP SERIES**

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 68

Panel Cutouts: Page 69

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	288 [1.135']		AP Male cable	4 pole	AP-4-12
		connector, Machined contacts, Thermoplastic	5 pole	AP-5-12	
8			Black shell.	6 pole	AP-6-12
	100.0 [3.937*]	~		8 pole	AP-8-12
					AP-4-11
100 million	¢288 (1.132')		connector, Machined contacts, Thermoplastic	5 pole	AP-5-11
			Black shell.	6 pole	AP-6-11
	98.7 [3.886*]	e		8 pole	AP-8-11
			AP Male	4 pole	AP-4-14
		32.4 [01.276 <sup>-</sup> 	Round Flange,		AP-5-14
			Machined contacts, Thermoplastic Black shell.	6 pole	AP-6-14
			DIACK SHEII.	8 pole	AP-8-14
			AP Female	4 pole AP-4-13	AP-4-13
		.4 [\$1.276 <sup>-</sup> ]→	chassis mount, Round Flange, Machined contacts, Thermoplastic Black shell.	5 pole	AP-5-13
				6 pole	AP-6-13
				8 pole	AP-8-13
			AP Male 4 pole	4 pole	AP-4-22
160	84.2 [1.148]	•32.4 [e1.276]+	Rectangular Flange, Machined contacts,	5 pole	AP-5-22 AP-6-22
0.			Thermoplastic	6 pole	
Carriera	-29.2 (1.148°)		Black shell.	8 pole	AP-8-22
		A	AP Female	4 pole	AP-4-21
	29.2 [1: 148] -	- 1224 (ni 276') -	chassis mount, Rectangular Flange, Machined contacts,	gular Flange, 5 pole AP-5-21	
			Thermoplastic Black shell.	6 pole	AP-6-21
	- 29.2 [1.148 <sup>*</sup> ]	2.8 [.11*] 	טומטא אווטוו.	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						
	Wire Gauge - Stranded wire:	12AWG	12AWG	12AWG	12AWG	14AWG		
	Flammability	UL94V-0						
	Environmental		Complies with EU RoHS 2 Directive 2011/65/EU					
ELECTRICAL	Service Voltage RMS <sup>1)</sup>	460V	660V	200V	200V	100V		
CHARACTERISTICS	Test Voltage AC RMS	2400V	3000V	1600V	1600V	1300V		
	Current carrying capacity	20A	20A	20A	20A	15A		
	Typicial Contact Resistance	≤3mΩ						
	Insulation Resistance	≥1000MΩ						
CLIMATIC	Protection Class	IP40						
CHARACTERISTICS	Operating Temperature	-25°C to +75°C (-13°F to +167°F)						
MECHANICAL	Weight - EP 11 & 12 <sup>2)</sup>	80g	84g	86g	86g	86g		
CHARACTERISTICS		(0.176lb)	(0.185lb)	(0.189lb)	(0.189lb)	(0.189lb)		
	Weight - EP 13 & 14 <sup>2)</sup>	48g	50g	54g	54g	54g		
		(0.105lb)	(0.110lb)	(0.119lb)	(0.119lb)	(0.119lb)		
	Weight - AP 11 & 12 <sup>2)</sup>	N/A	42g	44g	44g	44g		
			(0.092lb)	(0.097lb)	(0.097lb)	(0.097lb)		
	Weight - AP 13, 14, 21 & 22 <sup>2)</sup>	N/A	26g	30g	30g	28g		
			(0.057lb)	(0.066lb)	(0.066lb)	(0.061lb)		
	Typical Cable retention force	22Kg to	22Kg to 44Kg (50lb to 100lb) - Dependant on cable material and diameter					
	Mechanical operations		1000 mating cycles					

 $^{\scriptscriptstyle 1)}$  Not suitable for domestic applications above 50V

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

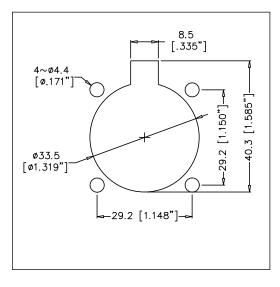


# STANDARD DATA EP/AP (CONT'D)

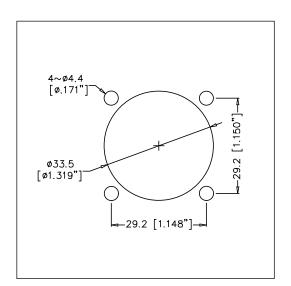
		DETAILS				
MATERIALS	ТҮРЕ	AP	EP			
	Connector shell	Modified PPE Resin	Diecast Zinc Alloy			
	Shell finish	Black	Satin Nickel or Black			
	Insulators	UL94V-0 PBT Resin				
Cable Bushing		Silicon Rubber	UL94 HB Thermoplastic Elastomer			
	Male contact Machined - Solder					
	Material / Plating	Brass / Bright Tin				
	Female contact Machined - Solder					
	Material / Plating	<b>phenol</b> Turkey&MiddleEast	Bright Tin			
CLAMPING Characteristics	Cable OD Range	11mm to 17mm	9mm to 16mm			
		(0.43" to 0.67") (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



### **Power Connectors**

**HP Series** 



# **HP Series**

HP Series connectors are suitable for AC power supply where a latch locking connector is required. They are rated at 25 A / 250 Vac. Connectors are keyed and colour coded for power-in (Blue) and power-out (Grey).



C SUS

### Features:

- Quick release, vibration resistant latch lock
- · 3 pole
- Screw Terminals or Solder Tab 3/16"
- Chuck type cable clamp
   25A Current rating
- Thermoplastic housing
- Industry standard mating
  UL, cUL recognized components (File no. E339831)

PRODUCT	DRAWING DImensions in mm (inches)	DESCRIPTION	CONTACT Type	SHELL COLOUR	PART NO.
		3 pole, Cable connector, Thermoplastic shell, Blue sleeve, keyed for power-in	Screw	Blue	HP-3-F
270		3 pole, Cable connector, Thermoplastic shell, Grey sleeve, keyed for power-out	Screw	Grey	HP-3-FG
10		3 pole, Chassis connector, Thermoplastic shell, Blue, keyed for power-in	Solder Tab 3/16"	Blue	HP-3-MD
10		3 pole, Chassis connector, Thermoplastic shell, Grey, keyed for power-out	Solder Tab 3/16"	Grey	HP-3-MDG
(0)	26.0 [1.024]	3 pole, Chassis connector, Thermoplastic shell, Blue, keyed for power-in, without insulation divider	Solder Tab 3/16"	Blue	HP-3-MDW
<b>(</b> 0,	26.0[1.024] 00 00 00 00 19.00[.74.8] 19.00[.74.8] 19.00[.74.8] 2.5 00 00 00 00 00 00 00 00 00 0	3 pole, Chassis connector, Thermoplastic shell, Grey, keyed for power-out, without insulation divider	Solder Tab 3/16"	Grey	HP-3-MDGW



## **STANDARD DATA HP SERIES CONNECTORS**

		VALUE					
GENERAL	Number of contacts	2 + PE					
CHARACTERISTICS	Termination	Screw or Solder Tab 3/16"					
	Flammability	UL94V-0					
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU					
ELECTRICAL	Rated Operating Voltage	250VAC					
CHARACTERISTICS	Test Voltage AC RMS	3200V					
	Current carrying capacity	25A					
	Typical Contact Resistance	≤3mΩ					
	Insulation Resistance (initial)	≥2GΩ					
	Insulation Resistance (after damp heat test)	≥1GΩ					
CLIMATIC	Protection Class	IP20					
CHARACTERISTICS	Operating Temperature	-25°C to +75°C (-13°F to +167°F)					
MECHANICAL Characteristics	Weight** - Chassis Connector - Cable Plug	12g (0.026lb) 32g (0.070lb)					
	Typical Cable retention force	200N (Subject to cable material and O.D.)					
	Cable O.D range - Blue Chuck Clamp - Black Chuck Clamp	5mm - 7.5mm (0.19" - 0.29") 7.5mm - 15mm (0.29" - 0.59")					
	Conductor Size - Screw Terminals	2.5mm <sup>2</sup> (AWG14)					
MATERIALS	Connector Shell / Finish	PA66 GF30 / Black					
	Insulators	PA66 GF30					
	Cable Boot / Backshell	Santoprene / PBT					
	Cable Clamp (Chuck)	P.0.M					
	Contact Plug - Material / Plating	Brass / Silver					
	Contact Chassis - Material / Plating	Phosphor Bronze / Silver					

\*\*Approximate weight in grams not including packaging. Please contact us for exact weight for shipping purposes.



Rev 4 - 08/2016

### **Power Connectors**

**HPT Series** 



## **HPT Series**

HPT Series connectors are suitable for AC power supply where a durable latch locking connector is required. They are rated at 16A, 250 Vac. HPT Series connectors can be connected or disconnected under load and are IP65 rated.

#### Features:



- 2+PE contact layout
  Quick release, vibration resistant latch lockable
  High impact UV resistant material
  True Mains Connector with Current Breaking Capacity (CBC)
  16A current rating (20A USA)
- Industry standard mating interface
- IP65 rated
- Patent Protected\* UL498 certified
- UL50E enclosure type 4 (when mated or in combination with protective caps)

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	CONTACT Type	SHELL COLOUR	PART NUMBER
Sec.		79 [3.098']	3 pole, Outlet Cable connector, Locking, Thermoplastic shell, Screw terminals, Lockable backshell	Screw	Black	HPT-3-F
	451 1) C CC	79 [3.098]	3 pole, Outlet Cable connector, Locking, Thermoplastic shell, Screw terminals	Screw	Black	HPT-3-FJ
	Lugzi I) o 22-5 [/	77 [3.043']	3 pole, Inlet Cable connector, Locking, Thermoplastic shell, Screw terminals, Lockable backshell	Screw	Black	НРТ-3-М
	L167 10 020 - g28.5 (p1	77 [3.043]	3 pole, Inlet Cable connector, Locking, Thermoplastic shell, Screw terminals	Screw	Black	HPT-3-MJ
	19.0 [.748'] 19.2 [.4.167] 19.2 [.	23.7 [.933'] + 10.5 [.413']	3 pole, Chassis Inlet connector, Thermoplastic shell, 1⁄4" flat tab terminals	Tab 1/4"	Black/ Yellow	HPT-3-MD
	19.0 [.748'] 03.2 [8.16'] 10.0 [.748'] 03.2 [8.16'] 10.0 [.748'] 10.0 [.748'] 10	-23.7 [.933] -10.5 [.415"] -23.7 [.933] -23.7 [.933] -23.	3 pole, Chassis Inlet connector, Thermoplastic shell, without insulation divider, 1⁄4" flat tab terminals	Tab 1/4"	Black/ Yellow	HPT-3-MDW
0	Ø.2. [961] 0.2. [		3 pole, Chassis Outlet connector, Thermoplastic shell, 1/4" flat tab terminals	Tab 1/4"	Black/ Yellow	HPT-3-FD
*	03.2 (0.126°) <sup>24.4</sup> [961°]- 		3 pole, Chassis Outlet connector, Thermoplastic shell, without insulation divider, 1⁄4" flat tab terminals	Tab 1/4"	Black/ Yellow	HPT-3-FDW
00		26.2 [1.03/] 26.2 [1.03/] 26	3 pole, Chassis Inlet-Outlet combination, Thermoplastic shell, ¼" flat tab terminals	Tab 1/4"	Black/ Yellow	HPT-3-CC

\*Patent Protected refer to amphenolaudio.com/patents



### **Power Connectors**

**HPT Series** 

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	COLOUR	PART NUMBER
	Ø3.0 (Ø0.12)-		Protective sealing cap with stainless steel lanyard to suit HPT-3-MD / HPT-3-MDW	Black	HPT-CAPM
	03.0 (00.12)		Protective sealing cap with stainless steel lanyard to suit HPT-3-FD / HPT-3-FDW	Black	HPT-CAPF
	03.0 (00.12)	66.0 [2.60]	Protective sealing cap with stainless steel lanyard to suit HPT-3-CC	Black	HPT-CAPD
	47.6[1.87]	Ø3.2 [Ø0.13]	Protective Self-closing sealing cap with stainless steel spring to suit HPT-3-MD / HPT-3-MDW	Black	HPT-CAPSM
	(90° ; 1) 6° 6° 7	-03.2 [00.13]	Protective Self-closing sealing cap with stainless steel spring to suit HPT-3-FD / HPT-3-FDW	Black	HPT-CAPSF
		-03.2 (00.13) -67.1 [2.64]	Protective Self-closing sealing cap with stainless steel spring to suit HPT-3-CC	Black	HPT-CAPSD
	28. [1.1]	2 21.0 1][0.83]	Cable connector backshell lock release tool	Black	HPT-RT



## **STANDARD DATA HPT SERIES CONNECTORS**

	[	VALUE
GENERAL	Number of contacts	2 + PE
CHARACTERISTICS	Termination - Cable Connector - Chassis Mount	2mm Hex key screw terminal Flat Tab 1/4"
	Flammability	UL94V-0
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU
ELECTRICAL	Rated Operating Voltage	250VAC
CHARACTERISTICS	Test Voltage AC RMS	1500V
	Current carrying capacity	16A (20A USA)
	Typical Contact Resistance	≤2mΩ
	Insulation Resistance (initial)	≥2GΩ
	Insulation Resistance (after damp heat test)	≥0.1GΩ
CLIMATIC	Protection Class	IP65, UL50E enclosure type 4 (in mated or in combination with protective caps)
CHARACTERISTICS	Operating Temperature	-25°C to +80°C (-13°F to +176°F)
MECHANICAL Characteristics	Weight** - Chassis Connector - Cable Plug	15g (0.033lb) / 25g (0.055lb) 40g (0.088lb)
	Typical Cable retention force	Subject to cable material and O.D.
	Cable O.D range	6.0 -12.0 mm with lockable backshell 7.5 -16.0 mm with non-lockable backshell
	Conductor Size - Screw Terminals	2.5mm <sup>2</sup> (AWG12)
MATERIALS	Connector Shell / Finish	PA66 GF30 / Black
	Insulators	PA66 GF30
	Cable Boot / Backshell	Neoprene / PBT
	Contact Plug - Material / Plating	Copper Alloy / Silver
	Contact Chassis - Material / Plating	Copper Alloy / Silver
	Protective Caps - Base - Overmolded Cap - Chain	Santoprene, UV resistant PA66 & Santoprene, UV resistance Stainless Steel SS304
	Protective Caps (Self closing) - Base - Overmolded Cap - Gasket - Spring	Polycarbonate, UV resistant Polycarbonate & Santoprene, UV resistant Silicone Rubber Stainless Steel SS304

\*\*Approximate weight in grams not including packaging. Please contact us for exact weight for shipping purposes.



Rev 4 - 11/2020

**Amphe-Dante** 

Amphe-Dante are Dante<sup>™</sup> audio to analogue audio adapters, available for Input, Output, AES3 and USB applications. Featuring premium quality Amphenol AX series XLR and RJ45 connectors in

Amphe-Dante products enable simple connection of analogue equipment to a Dante network and can receive and transmit audio channels from a Dante network and provide studio-quality, low-latency audio via XLR connectors to and from analogue

**Adapters** 

a robust molded housing.

audio equipment.



Amphe-Dante feature high-quality digital-toanalogue converters, and support a range of sample rates and bit depths. They can provide a hardware master clock for a Dante network. As with other Dante products, the freely available Dante Controller software application is used to automatically discover and configure Amphe-Dante devices connected to the Dante network. Device names, channel labels, signal routing and other parameters (for example, sample rate and latency) can be configured via the network using Dante Controller. A variety of network and clock synchronisation diagnostic tools are also available in Dante Controller.

Amphe-Dante products use Power over Ethernet (PoE). Power can be provided through the Ethernet cable from a PoE-capable network switch, or from a separate PoE injector.

### Available Software Options (required)

#### **Dante Controller**

Dante Controller is a free software application that enables you to route audio and configure devices on a Dante network. As well as automatic device discovery, one-click signal routing and user-editable device and channel labels, Dante Controller provides essential device status information and powerful real-time network monitoring, including device-level latency and clock stability stats, multicast bandwidth usage, and customized event logging, enabling you to quickly identify and resolve any potential network issues.

#### Dante Via

Dante Via is powerful and easy-to-use software that delivers unprecedented routing of computer-based audio, allowing a wide range of applications and devices to be networked and interconnected, easily and inexpensively. Dante Via network-enables locally-connected USB and Firewire devices, and a huge range of software applications, allowing you to route computer -based audio across an existing Dante network, and create standalone Dante networks without dedicated Dante hardware.

#### **Dante Virtual Soundcard**

Dante Virtual Soundcard turns your computer into a Dante-powered workstation, seamlessly integrating your PC or Mac with Dante audio devices on your network. You can instantly connect to a Dante network to record, process and playout using any audio application and any combination of Dante-enabled devices.

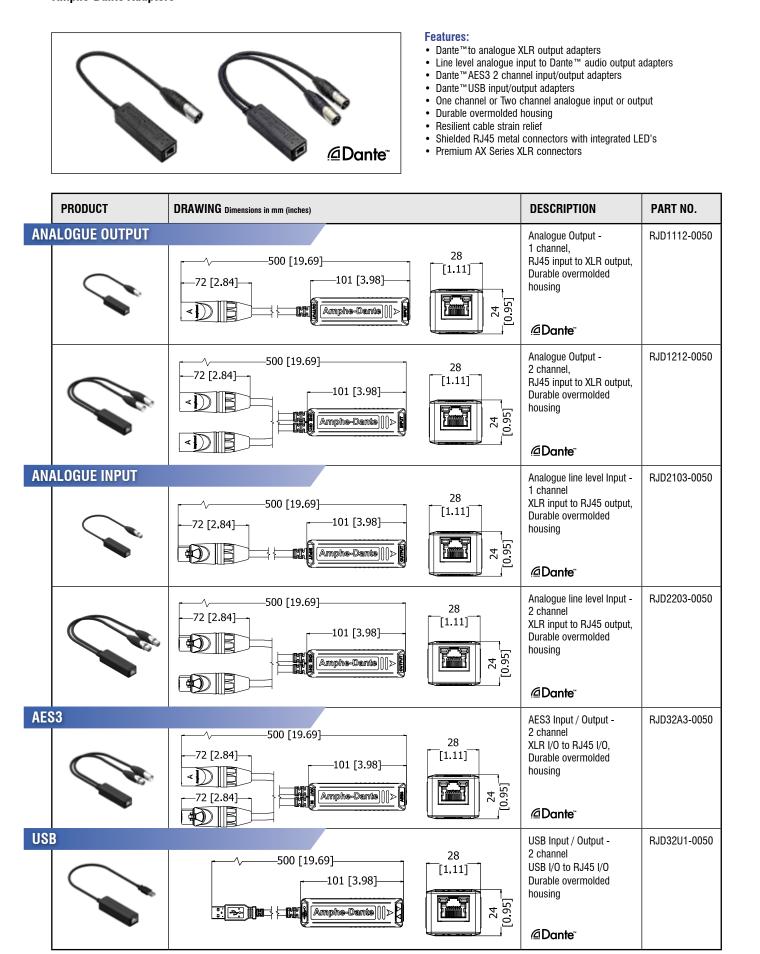
#### **Dante Controller**



All software can be purchased and downloaded at amphenolaudio.com/products/dante

Dante™ is a trademark of Audinate Pty Ltd. Audinate® is a registered trademark of Audinate Pty Ltd.



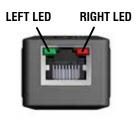




## **SPECIFICATIONS**

		ANALOG INPUT 1CH	ANALOG INPUT 2CH	ANALOG OUT- Put 1ch	ANALOG OUT- Put 2ch	AES3 I/0 2 in 2 out	USB I/O 2 IN 2 Out	
GENERAL	Connectors	1 XLR-F	2 XLR-F	RJ45	RJ45	RJ45	RJ45	
		RJ45	RJ45	1 XLR-M	2 XLR-M	1 XLR-M, 1 XLR-F	USB 2.0 Type A	
ELECTRICAL	Power Consumption			< 2	Watt			
	Power over Ethernet (Required)		Class 1 IE	EE 802.3af POE PD	compliant		PoE or USB	
ANALOG / Digital Audio	Max Signal Level (Balanced)	· · · ·	-4dBu / 0dBu -10dBV		<b>4dBu</b> / 0dBu -10dBV	-	-	
	Impedance		balanced unbalanced		balanced nbalanced	110 Ohm balanced	-	
	Frequency Response	20Hz to 20 kł	Hz (+/-0.5db)	20Hz to 20 kł	Hz (+/-0.5db)	-	-	
	Dynamic Range	> 1	00dB	> 1	00dB	-	-	
	Signal to Noise	> 1	00dB	> 1	00dB	> 135dB	-	
	Total Harmonic Distortion	< 0.01% at +4dBu < 0.01% at +4dBu			-	-		
	Channel Separation	N/A	> 100 dB	N/A	> 100 dB		-	
	Channel Matching	N/A	< 0.25 dB	N/A	< 0.25 dB		-	
DANTE® AUDIO	Asynchronous Sample Rate Conversion		-		-	Yes	-	
	Sample Rate	44.1 kHz, 48 kHz (default), and 96 kHz						
	Bit Depth	24 bits						
	Network Speed			100	Mbps			
	Network Interface			Latency	from 1ms			
	Network Transport			Dante Audio ove	er IP, AES67 RTP			
CLIMATIC	Protection Class			IP	40			
	Operating Temperature			-5°C to +60°C (	23ºF to +140ºF)			
MECHANICAL	Insertion and Withdrawal Force	≥10N - ≤35N						
	Weight	136g (0.299lb) 192g (0.423lb) 136g (0.299lb) 192g (0.423lb) 192g (0.423lb)						
MATERIALS	Housing			PVC 60	P Black			

## **LED STATUS**



FUNCTION	LEFT LED	RIGHT LED	COMMENT
Off	OFF	OFF	No Power
Device is booting	Solid GREEN	Solid RED	
Slave with sync	Blinking GREEN	Solid GREEN	Normal operation
Clock Master	Blinking GREEN	Blinking GREEN	Normal operation
Any runtime error	Blinking GREEN	Blinking RED	Normal operation
Identify	Alternating RED and GREEN	Alternating RED and GREEN	Blinking for 6 seconds (cycle every 0.5 seconds)
Failsafe (bootloader)	Blinking RED	Blinking RED	Failsafe, Corrupt Capability (red in DC)
Upgrade (bootloader)	Blinking ORANGE	Blinking ORANGE	Device is upgrading





XLRnet was designed in conjunction with the Amphenol Data / Telecom product group of Amphenol Canada Corp., a subsidiary of Amphenol Corporation. Utilising our combined expertise and knowledge of the professional audio and high-speed data markets we are proud to offer the XLRnet series. Featuring Class D (10/100 BASE-T), CAT5E (1000 BASE-T) or CAT6 (10GBASE-T) ethernet performance in A, B or D shell housings with integrated LED's and complete shielding options we have your high-speed data requirements covered.

### **Features**

- Class D (10/100 BASE-T), CAT5E (1000 BASE-T) or CAT6 (10GBASE-T) ethernet performance
- A, B or D type chassis housings
- · IDC or IDC 110 punch down terminals
- RJ45 feedthrough panel connectors
- Shielded or non-shielded
- LED indicators in a variety of colours.
- · Compact design
- · Cable plug housings
- · Quick and simple installation

### **Options**

- · Horizontal or Vertical PCB contacts
- Bulk Packaging
- LED colour Red, Green, Yellow or Blue combinations

### **Ordering Codes**

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

## XLRnet Connectors

## Simple steps to guide you in using this catalogue

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





## **XLRnet SERIES**

### Features/Benefits:

- XLR RJ45 Cable plug housing.
- Designed for pre-assembled RJ45 cables.
- Quick and simple installation.
- Cost effective method for harsh environments.
- No cabling in field required.
- No tools required for installation.
- Available in Nickel or Black housings.
- Coloured boots / Backshells

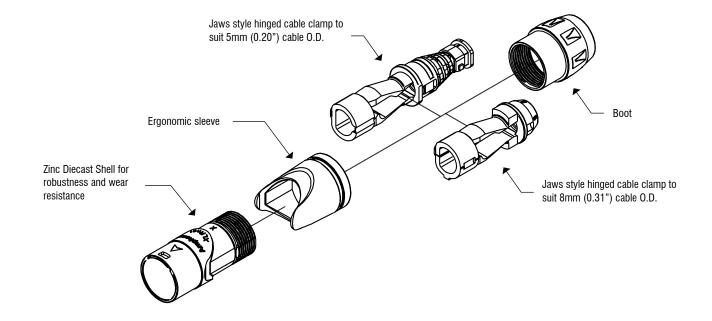
#### Specifications: Page 80 Part Number Breakdown : Page 80

#### Assembly Instructions: Page 81

 $\ensuremath{\mathsf{NOTE}}^*\ensuremath{\mathsf{RJ45}}$  preassembled cable sold separately and is not included with the XLRnet connector.

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		84 [3.31"]	XLRnet, XLR cable plug housing to suit preas- sembled RJ45 cables, Nickel Finish	Standard	RJX8M
	φ21 [81"]			Bulk Pack	RJX8M BULK
		84	XLRnet, XLR cable plug housing to suit preassembled RJ45	Standard	RJX8MB
	φ21 [.81"] Amphend		cables, Black Finish	Bulk Pack	RJX8MB BULK

## **ISO VIEW OF RJX8M**





## PART NUMBER BREAKDOWN

**XLRnet SERIES** 

E. G . RJX8MB BULK RJX (Series Prefix), † Bulk Packaged	8 contacts, M	(Cable Cor	nector), B (Black Finish),
SERIES PREFIX	RJX	=	Series Prefix
CONTACT LAYOUT	8	=	RJ45 Cable Housing
GENDER	Μ	=	Male Cable Plug
SHELL FINISH	Blank	=	Nickel Plated Finish
	В	=	Metal - Black Finish
PACKAGING	Blank	=	Individual Bags
	BULK	=	Bulk Packed

## **STANDARD DATA XLRnet SERIES**

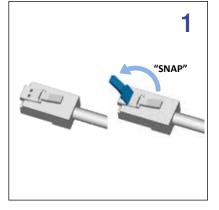
		VALUE
GENERAL	Termination	Preassembled RJ45 Cable (Not supplied)
CHARACTERISTICS	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU
CLIMATIC	Protection Class	IP40
CHARACTERISTICS	Operating Temperature	-25°C to +75°C (-13°F to -167°F)
MECHANICAL	Insertion and Withdrawal force	≥10N - ≤20N
CHARACTERISTICS	Weight 2)	26g (0.057lb)
	Cable O.D. range	5 or 8mm (0.20" or 0.31")
	Mechanical Operations	1000 mating cycles
MATERIALS	Connector shell - Metal Shell finish	Diecast Zinc Alloy Satin nickel or Black
	Boot / Backshell Finish	UL94V-0 Noryl N190 / Valox Black
	Cable clamp	PA6
	Sleeve	Valox

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

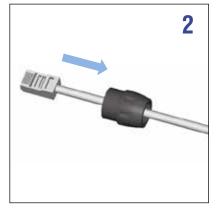
Rev 1 - 03/2013



## XLRnet SERIES CABLE ASSEMBLY INSTRUCTIONS



Snap or cut off release tab of the RJ45 plug. Failure to remove the RJ45's Release Tab will make the XLRnet assembly permanently latching. The XLRnet series has an independent panel side latching system.



Slide the nut (backshell) onto the cable.



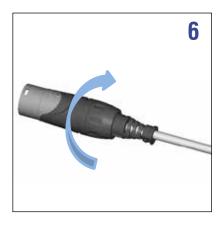
Install the cable clamp-boot.



Close clamp-boot, fasten the two tabs together to lock.



Push clamp-boot & cable together into the shell



Thread the nut (backshell) onto the shell (torque 0.8Nm-1.2Nm) to close the connector assembly.



### Data Connectors XLRnet RJ45 Ethernet Series



## XLRnet SERIES A & B Type

### Features:

- RJ45 Class D (10/100 BASE-T), CAT5E (1000 BASE-T) or CAT6 (10GBASE-T) Ethernet performance
- A or B type chassis housings
- Shielded or non-shielded
- LED indicators in a variety of colours.
- Horizontal or Vertical PCB
- Mates with XLRnet cable plugs or standard RJ45 plug.

Part Number Breakdown: Page 84 Specifications: Page 89 PCB Footprints: Page 88 Recommended Fastener: Page 134

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	ТҮРЕ		D* /RHS	PART NUMBER
-			XLRnet chassis, A type, Horizontal PCB	Class D	-	-	RJX8FA3HB
				CAT5E			RJX8FA5HB
A.C.				CAT6			RJX8FA6HB
			XLRnet chassis B type, Horizontal PCB	Class D	-	-	RJX8FB3HB
				CAT5E			RJX8FB5HB
				CAT6			RJX8FB6HB
			B type, LEDs, Horizontal PCB, Bulk packed	CAT5E	R	G	RJX8FB5HRGB
					R	Y	RJX8FB5HRYB
					R	R	RJX8FB5HRRB
That all		-19.7 ——			G	R	RJX8FB5HGRB
A 100 A 100					G	Y	RJX8FB5HGYB
					U	U	RJX8FB5HUUB
				CAT6	R	G	RJX8FB6HRGB
					R	Y	RJX8FB6HRYB
		° <b>≜</b>			R	R	RJX8FB6HRRB
					G	R	RJX8FB6HGRB
					G	Y	RJX8FB6HGYB
					U	U	RJX8FB6HUUB
			XLRnet chassis, B type, Shielded Hood,	Class D	-	-	RJX8FB3HEB
			Horizontal PCB, Bulk packed	CAT5E			RJX8FB5HEB
				CAT6			RJX8FB6HEB

\*Note: LED colours are denoted left to right from the panel side front view. Refer page 88 R = Red, G = Green, Y = Yellow, U = Blue



### **Data Connectors**

XLRnet RJ45 Ethernet Series

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	ТҮРЕ		ED* S/RHS	PART NUMBER
			XLRnet chassis,	CAT5E	R	G	RJX8FB5HRGEB
			B type, Shielded Hood,		R	Y	RJX8FB5HRYEB
			LEDs, Horizontal PCB, Bulk packed		R	R	RJX8FB5HRREB
	19.8	1	Buit publicu		G	R	RJX8FB5HGREB
0					G	Y	RJX8FB5HGYEB
1					U	U	RJX8FB5HUUEB
	│└───(@─────────────────			CAT6	R	G	RJX8FB6HRGEB
					R	Y	RJX8FB6HRYEB
					R	R	RJX8FB6HRREB
					G	R	RJX8FB6HGREB
					G	Y	RJX8FB6HGYEB
					U	U	RJX8FB6HUUEB
			XLRnet chassis, A type, Vertical PCB	Class D	-	-	RJX8FA3VB
16				CAT5E			RJX8FA5VB
AC				CAT6			RJX8FA6VB
		XLRnet chassis, B Type, Vertical PCB	Class D	-	-	RJX8FB3VB	
			CAT5E			RJX8FB5VB	
				CAT6			RJX8FB6VB
			XLRnet chassis,	CAT5E	R	G	RJX8FB5VRGB
			B type, LEDs,		R	Y	RJX8FB5VRYB
			Vertical PCB, Bulk packed		R	R	RJX8FB5VRRB
-	19.80 2.7 - 18.	3 = 24.9 = 3.3			G	R	RJX8FB5VGRB
140 (ALCA)					G	Y	RJX8FB5VGYB
87					U	U	RJX8FB5VUUB
				CAT6	R	G	RJX8FB6VRGB
					R	Y	RJX8FB6VRYB
					R	R	RJX8FB6VRRB
					G	R	RJX8FB6VGRB
					G	Y	RJX8FB6VGYB
					U	U	RJX8FB6VUUB
			XLRnet chassis, B type,	Class D	-	-	RJX8FB3VEB
		Shielded Hood, Vertical PCB, Bulk packed	CAT5E			RJX8FB5VEB	
				CAT6	1		RJX8FB6VEB

\*Note: LED colours are denoted left to right from the panel side front view. Refer page 88 R = Red, G = Green, Y = Yellow, U = Blue



### **Data Connectors**

E. G. RJX8FB5HLRREB

**SERIES PREFIX** 

SHELL SERIES

TRANSMISSION

TERMINATION

GENDER

CLASS

LOCKING

MECHANISM

LED COLOUR

SEQUENCE\*

EMI / RFI

PACKAGING

SHIELDING HOOD

**CONTACT LAYOUT** 

### **XLRnet RJ45 Ethernet Series**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	ТҮРЕ		D* /RHS	PART NUMBER
			XLRnet chassis,	CAT5E	R	G	RJX8FB5VRGEB
			B type, Shielded Hood,		R	Y	RJX8FB5VRYEB
	- 14.00-+		LEDs, Vertical PCB, Bulk packed		R	R	RJX8FB5VRREB
		18.3			G	R	RJX8FB5VGREB
					G	Y	RJX8FB5VGYEB
					U	U	RJX8FB5VUUEB
- 17			CAT6	R	G	RJX8FB6VRGEB	
					R	Y	RJX8FB6VRYEB
				R	R	RJX8FB6VRREB	
				G	R	RJX8FB6VGREB	
					G	Y	RJX8FB6VGYEB
					U	U	RJX8FB6VUUEB

\*Note: LED colours are denoted left to right from the panel side front view. Refer page 88 R = Red, G = Green, Y = Yellow, U = Blue

## PART NUMBER BREAKDOWN

RJX

8

F

Α

В

3

5

6

Н

٧

Ρ

Blank

Blank

RG

RY

RR

GR

GY

GG

YR

YY

YG

UU

F

В

Blank

Blank

=

=

=

=

=

=

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XLRnet A and B Type Printed Circuit Board Connectors

#### THINSON SAN CLASS CONTACT LA YOUTS EM RT HOOD SHELSENES SERIES PREIN LED COLOURS 8 F В 5 Е RJX Η RR L RJX (Series Prefix), 8 (Contacts), Female B type, 5 Cat5E Horizontal, Latchless, Red - Red LEDs, EMI / RFI Hood, Bulk Packaged. Series Prefix = RJ45 type = Receptacle housing = А Туре = В Туре = Class D = CAT 5e = CAT 6 = = Horizontal Printed Circuit Board Vertical Printed Circuit Board = = Latching Push lever supplied separately for = customer installation (Contact factory for detailed fitting instructions) No LEDs = Red / Green = Red / Yellow = = Red / Red Green / Red = Green / Yellow = = Green / Green Yellow / Red =

\*Note: LED colours are denoted left to right from the panel side front view. Refer Page 88

Yellow / Yellow

Yellow / Green

No shield hood

EMI / RFI shield hood

Blue / Blue

Individual

Bulk packed



PACKAGING

В



## XLRnet SERIES D Type

### Features:

- RJ45 Class D (10/100 Base-T), CAT5E (1000 Base-T) or CAT6 (10GBASE-T) Ethernet performance
- D type XLR standard housings
- IDC Punchdown block
- Thru-adaptor / Feedthrough
- Horizontal or Vertical PCB

Part Number Breakdown: Page 87 Specifications: Page 89 PCB Footprints: Page 88 Recommended Fastener: Page 134

PRODUCT - FIGURE	DRAWING	Dimensions in n	nm (inches)	DESCRIPTION	TYPE	PART NUMBER
	26.0 19.00 (19.00) (19.00 (19.00)			XLRnet chassis, D type, Feedthrough, Nickel Finish	CAT5E	RJX8FD5T
	26.0 25- 19.00 PUBH			XLRnet chassis, D type, IDC Terminals, 110 type, Nickel Finish	CAT5E	RJX8FD5110
					CAT6	RJX8FD6110
	25			XLRnet chassis, D type, IDC Terminals, Nickel Finish	CAT5E	RJX8FD5I
					CAT6	RJX8FD6I
Tac	19 00			XLRnet chassis, D type, Horizontal PCB, Nickel	Class D	RJX8FD3HB
				Finish	CAT5E	RJX8FD5HB
Amphanol					CAT6	RJX8FD6HB
TAK	XLRnet chassis, D type, Vertical PCB, Nickel Finish	Class D	RJX8FD3VB			
					CAT5E	RJX8FD5VB
			CAT6	RJX8FD6VB		



### **Data Connectors**

### **XLRnet RJ45 Ethernet Series**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	ТҮРЕ	PART NUMBER
			XLRnet chassis, D type (IP54), Feedthrough, Nickel Finish	CAT5E	RJXS8FD5T
			XLRnet chassis, D type (IP54), IDC Terminals,	CAT5E	RJXS8FD5110
			110 type, Nickel Finish	CAT6	RJXS8FD6110
12			XLRnet chassis, D type (IP54), IDC Terminals,	CAT5E	RJXS8FD5I
			Nickel Finish	CAT6	RJXS8FD6I
			XLRnet chassis, D type (IP54),	Class D	RJXS8FD3HB
			Horizontal PCB, Nickel Finish	CAT5E	RJXS8FD5HB
0	Amphenol			CAT6	RJXS8FD6HB
		XLRnet chassis, D type (IP54),	Class D	RJXS8FD3VB	
			Vertical PCB, Nickel Finish	CAT5E	RJXS8FD5VB
()	Amphanol			CAT6	RJXS8FD6VB
10			XLRnet chassis with Protective cap, D type (IP54), Feedthrough, Nickel Finish	CAT5E	RJXS8FG5T
			XLRnet chassis with Protective cap, D type (IP54),	CAT5E	RJXS8FG5110
-			IDC Terminals, 110 type, Nickel Finish	CAT6	RJXS8FG6110
	26.0 5.8-		XLRnet chassis with Protective cap, D type (IP54),	CAT5E	RJXS8FG5I
-			IDC Terminals, Nickel Finish	CAT6	RJXS8FG6I
	5 		XLRnet chassis with Protective cap,	Class D	RJXS8FG3HB
				CAT5E	RJXS8FG5HB
3	Nickel Finish	Nickel Finish	CAT6	RJXS8FG6HB	
			XLRnet chassis with Protective cap,	Class D	RJXS8FG3VB
B			D type (IP54), Vertical PCB, Nickel Finish	CAT5E CAT6	RJXS8FG5VB RJXS8FG6VB
				UAIU	



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LOWING BEINDER

F D

SHELSENES

3

SERIES PREFIX

8

RJX

## PART NUMBER BREAKDOWN

### XLRnet D TYPE Chassis Connectors

### E. G. RJX8FD3TB

RJX (Series Prefix), 8 (Contacts), Female D type, 3 Class D Thru Adaptor, Bulk Packaged

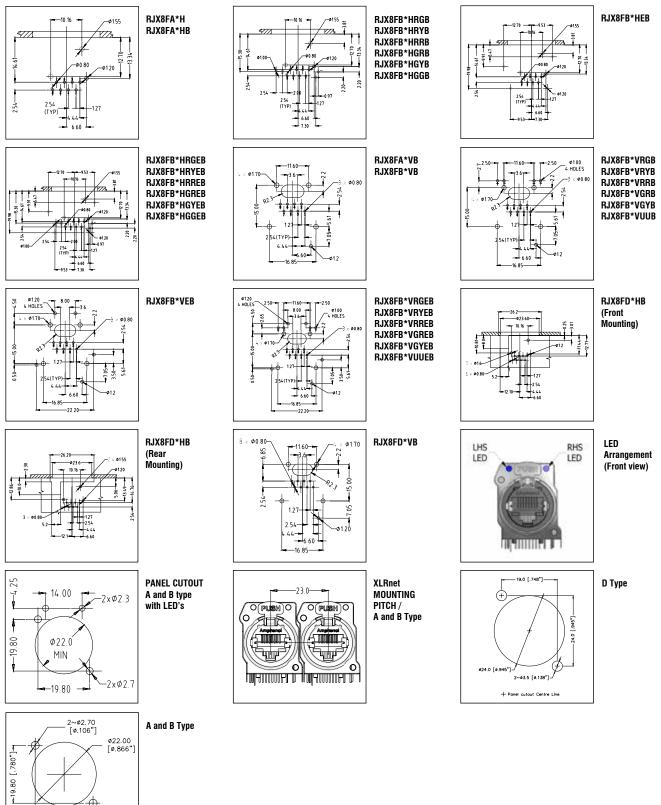
	(001110010	), <b>.</b> onnano	b type, b blace b mild haupter, bank i denaged	
SERIES PREFIX	RJX	=	Series Prefix	
CONTACT LAYOUT	8	=	RJ45 type	1
GENDER	F	=	Receptacle housing	1
SHELL SERIES	D	=	D Type	
TRANSMISSION	3	=	Class D	1
CLASS	5	=	CAT 5e	
ULASS	6	=	CAT 6	
TERMINATION	Н	=	Horizontal Printed Circuit Board	
	1	=	IDC Punch Down Block	
	110	=	IDC 110 Punch Down Block	
	Т	=	Thru adaptor / Feedthrough	
	V	=	Vertical Printed Circuit Board	
	Blank	=	Latching	1
MECHANISM	Р	=	Push lever supplied separately for	
MEGHANISIN			customer installation	
			(Contact factory for detailed fitting instructions)	
PACKAGING	Blank	=	Individual	1
I AUNAUNU	В	=	Bulk packed	

\*Note: LED colours are denoted left to right from the panel side front view. Refer Page 88



**XLRnet RJ45 Ethernet Series** 

# **XLRNET A, B AND D TYPE SERIES** \* Applicable to 3 (Class D), 5 (CAT5E) and 6 (CAT6), where available





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-19.80 [.780"]--Panel cutout CL

## **STANDARD DATA XLRnet CHASSIS RECEPTACLES**

			VALUE				
		Class D	CAT5E	CAT6			
GENERAL	Number of contacts		8	•			
CHARACTERISTICS	Contact Arrangement	RJ45					
	Termination	Printed Circuit	Board (PCB) - through hole, Feedthro	ugh, IDC Terminal			
	Flammability		UL94V-0				
	Environmental	Corr	plies with EU RoHS 2 Directive 2011	/65/EU			
	Solderability		MIL-STD 202, Method 208				
ELECTRICAL	Rated current per contact		1.5 A				
CHARACTERISTICS	Rated Voltage		125V AC				
	Typical Contact Resistance		20mΩ				
	Insulation Resistance		> 500MΩ				
	Dielectric Strength		1000 VAC, 60 secs				
	Max. Frequency	100Mhz	250MHz	250MHz			
	Ethernet Standard	10/100 BASE-T	1000 BASE-T	10GBASE-T			
	Transmission Spec.	E	IA/ TIA568-C.2, ISO/IEC 11801, EN50	)173			
	PoE+		802.3at Type 2				
	LED Type		Round, single pole, indicator				
CLIMATIC	Protection Class		IP40 (with EMI/RFI shield)				
CHARACTERISTICS	Operating Temperature		-40°C to +80°C (-40°F to +176°F	)			
MECHANICAL Characteristics	Weight** - A & B Housing - Shielded Housing - D Shell		11g (0.024lb) 17g (0.037lb) 25g (0.055lb)				
	Mechanical Operations		1000				
	Insertion and Withdrawal Force		≤ 21N				
	Latch		Spring Steel				
	Panel Thickness max.		3mm				
	Mounting screw torque max.		0.35Nm				
	Fastener		Self-Tapping screw M2.5				
MATERIALS	Connector Shell / Housing	Thermoplas	stic, DSM Stanyl UL94V-0, 30% GF /	PA66 30% GF			
	Flange (A type)	The	ermoplastic, DSM Stanyl UL94V-0, 30	0% GF			
	Flange (B type)		Diescast Zinc Alloy 3				
	Flange Finish (B type)		Satin Nickel				
	Contact		Phosphor Bronze				
	Contact Finish - Ground - RJ45		0.38μm Au over 1.27μm Ni 1.27μm Au over 1.27μm Ni				
	Metal Hood Shield EMI/RFI		Brass, nickel plated				
	Latch lock and Spring		Spring steel				

\*\*Approximate weight in grams not including packaging. Please contact us for exact weight for shipping purposes.



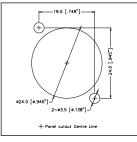
### **Data Connectors USB/HDMI Chassis Mount**



## **USB/HDMI Series**

- Features: Data connectors
- Feedthrough adaptors
  USB 3 Type A
- HDMI receptacles
- **Options:** Nickel or Black Shell Finish

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		USB 3.0, Feedthrough adapter, D Flange, Nickel Finish	Туре А / Туре А	AC-USB3-AA
	PRONT VIEW         Provide	USB 3.0, Feedthrough adapter, D Flange, Black Finish	Туре А / Туре А	AC-USB3-AAB
		HDMI, Feedthrough adapter, D Flange, Nickel Finish	HDMI / HDMI	AC-HDMI-RR
6	PRONT VIEW PRONT	HDMI, Feedthrough adapter, D Flange, Black Finish	HDMI / HDMI	AC-HDMI-RRB



AC-\*\*\*\*

### **PANEL CUTOUT** DIMENSIONS

**FRONT VIEW** 



## **USB/HDMI TECHNICAL DATA**

		VALUE				
GENERAL	Туре	USB 3.0	HDMI 2.0			
CHARACTERISTICS	Termination	Thru-adaptor				
	Max. Wire Gauge - Stranded Wire	AWG 14 - 2.5mm	2			
	Flammability rating of insulating plastics	UL94V-0				
	Solderability, complies with	IEC 68-2-20				
	Environmental	Complies with EU RoHS 2 Direct	ive 2011/65/EU			
ELECTRICAL	Current Carrying Capacity	10A (Depends on Mating C	Connector)			
CHARACTERISTICS	Typical Contact Resistance	$\leq$ 10m $\Omega$ (Depends on Mating	g Connector)			
	Insulation resistance (initial) After Damp Heat Test	$> 2G\Omega$ $\ge 10^3 \operatorname{Meg} \Omega$				
	Dielectric Strength	1500 V dc				
CLIMATIC	Protection Class	IP40				
CHARACTERISTICS	Operating Temperature	-25°C to +75°C (-13°F to +167°F)				
MECHANICAL	Insertion and Withdrawal Force	≥10N - ≤30N (depends on mating connector)				
CHARACTERISTICS	Cable O.D.	3mm to 7mm (0.118" to 0.275")				
	Mechanical Operations	500 mating cycles				
	Weight - Cable Mount - Panel Mount	18g (0.039lb) 30g (0.066lb)				
MATERIALS	Connector Shell Material (Plugs)	Diecast Zinc Alloy EZDA No.3				
	Connector Shell Finish	Satin Nickel or Coloured Polyester				
	Insulators	PA66				
	Cable Bushing	Thermoplastic Polyurethane				
	Contacts	Brass Alloy				
	Plating	Gold Flash				

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



### **Plugs & Jacks**



### **Applications**

- · Audio Cables and Snakes
- · Amplifiers
- · Mixing desks
- · Patch panel

#### **PRO RANGE 1/4" Phone Plug T-Series** Features / Options

- · Mono or Stereo (TRS)
- Switching Plugs
- · Nickel or Gold contact plating · Straight or Right Angle
- Optional heavy duty metal backshell / boot · Increased solder area on ground contact
- "Jaws" Cable Clamp
- · Precision machined contacts
- · Coloured Grommet
- JUMBO Series Plugs

#### **PRO RANGE 1/4" Phone Plug Q-Series** Features / Options

- Mono or Stereo (TRS)
- · Slimline design
- · Quick and Easy to assemble
- · Nickel or Gold contact plating
- · Chuck style cable clamp
- · Nickel or Black shell finish

### · Molded backshell

#### **MUSICIAN RANGE 1/4" Phone Plug** Features / Options

- · Mono or Stereo (TRS)
- · Compact Shell
- · Straight or Right angle
- · Flexible grommet cable protection
- · Nickel or Gold contact plating
- · Satin Nickel or Black finish
- Coloured Grommet

### Jaws Cable Clamp Options for T-Series\*



Standard Jaws cable clamp (Black), Cable 0.D 3mm to 6mm (0.118" to 0.236")

Large Jaws cable clamp (Purple), Cable O.D 6mm to 7mm (0.236" to 0.275") \*Note: Applicable to T-Series straight cable connectors only. Refer to page 101 for right angle

connector Jaws cable clamp specifications.

### **Chuck Clamp for Q-Series**



Standard Chuck clamp (Black), Cable O.D 3mm to 7mm (0.118" to 0.275")

### **Musician Range Cable Clamp Options**





M-Series II, Cable O.D 6.5mm to 8mm (0.256" to 0.315")

(0.118" to 0.256")

## **1/4" PHONE CONNECTORS**

Amphenol offers 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

### **Ordering Codes**

We have listed the more common ordering codes in each section. Refer to our 1/4" plug product feature matrix found on the next page for assistance on selecting the right plug for your application.

## 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.



### **Plugs & Jacks**

## **1/4" PLUG FEATURE MATRIX**

			Bioth	H ANGLE	SERIES SMICH	T SERIES	STRAIGHT STRAIGS	RIGHT BRIEFLY		
FEA	TURES	<b>T</b> SERIE	STR	BEIGT JUMBO	SERIE SWITCH	JS SMICH	ALISO OSERI	AS AN STREET	W Stills	i jiji of
PRECISION MACHINED CONTAC		X	X	X	X	X	X	X	X	X
CENTER CONTACT	1 pc. Center Contact	X	X	X	X	X				Х*
	2 pc Press Fit Tip/Center Contact						Х	X	X	Х*
BARREL:	Machined Tube	X	X	X	X	X				
	Precision Extruded Tube						Х	X	X	х
JAWS CABLE CLAMP		X	X		X	X				
MIN. CABLE OD	Black Jaw: 3mm/0.118"	X	X		X	X				
	Purple Jaw: 6mm/0.236"	X			X					
	Purple Jaw: 5.5mm/0.216"		X			X				
MAX. CABLE OD	Black Jaw: 6mm/0.236"	X			X					
	Black Jaw: 5.5mm/0.216"		X			X				
	Purple Jaw: 7.5mm/0.295"	X			X					
	Purple Jaw: 6.5mm/0.255"		X			X				
CHUCK CABLE CLAMP	-									
MIN. CABLE OD	Black Chuck: 3.5mm/0.137"						X			
MAX. CABLE OD	Black Jaw: 7mm/0.275"						X			
STANDARD CABLE CLAMP				X				X	X	X
MIN. CABLE OD	7.5mm/0.295"			X						
MAX. CABLE OD	6mm/0.236"							X		
	8mm/0.315"								X	
	8.8mm/0.345"									X
	10.5mm/0.413"			Х						
BACKSHELL FINISH	Satin Nickel	X	X	X	X	X	X	X	X	
	Black	X	X	X	X	X	X	X	X	
	Bright Nickel									X
	Bright Gold									X
CONTACT MATERIAL/	Brass/Nickel (Ni)	X	X	X	X	X	X	X	X	X
FINISH OPTIONS	Brass/Gold over 2µm (Ni)	X	X	Х	X	Х	X	X	X	X

<sup>1</sup>Custom Series - Minimum order quantities apply. Contact us for further details.



## **Plugs & Jacks**

**T-Series Plugs** 



## **T-Series**

### Features:

- Mono or Stereo (TRS).
- Stylised shell design with Ergonomic grip.Straight or Right Angle.
- Robust diecast shell in Satin nickel or Black finish.
- Nickel 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. Coloured grommets (ordered separately) Part Number Breakdown: Page 97 Specifications: Page 98

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
	بهــــــــــــــــــــــــــــــــــــ	1/4" (6.35mmø) Mono Phone plug,	Standard	TM2P
	94 [3.685"]	Jaws cable clamp, Thermoplastic back- shell,	Gold Plated Contacts	TM2P-AU
Contras de la co		Satin finish.	Large Cable Clamp	TM2PJ
A.			Bulk Pack	TM2P BULK
	e	1/4" (6.35mmø) Mono Phone plug,	Standard	TM2PB
	94 [3.685"] 	Jaws cable clamp, Thermoplastic back- shell,	Gold Plated Contacts	TM2PB-AU
		Black finish.	Large Cable Clamp	TM2PBJ
-87			Bulk Pack	TM2PB BULK
	94 [3.685"]	1/4" (6.35mmø) Stereo Phone plug, Jaws cable clamp, Thermoplastic back- shell, Satin finish.	Standard	TS3P
			Gold Plated Contacts	TS3P-AU
Constant Hitz			Large Cable Clamp	TS3PJ
No. 10			Bulk Pack	TS3P BULK
	94 [3.685"] 63 [2.483"] 63 [2.483"] 63 [2.483"] 63 [2.483"] 63 [2.483"] 63 [2.483"] 63 [2.483"] 64 [3.685] 65 [2.483"] 65 [2.483"] 65 [2.483"] 66 [2.483"] 67 [2.483] 67 [2.483"] 67 [2.483"] 67 [2.483] 67 [2.483] 67 [2.483] 67 [2.483] 67 [2.483] 67 [2.483] 67 [2.483] 67 [2.483] 67 [2.483] 67 [2.483] 77 [2.483] 70 [2.483]	1/4" (6.35mmø) Stereo Phone plug,	Standard	TS3PB
C		Jaws cable clamp, Thermoplastic back- shell,	Gold Plated Contacts	TS3PB-AU
		Black finish.	Large Cable Clamp	TS3PBJ
WEL			Bulk Pack	TS3PB BULK



# Plugs & Jacks T-Series Plugs

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
•	ya−−−−−−94 [3.685"]−−−−−−−−−−−−	1/4" (6.35mmø) Mono Phone plug, Jaws cable clamp, Metal backshell,	Standard Gold Plated Contacts	TM2PN TM2PN-AU
	94 [3.685"] 	Satin finish.		
July 1			Large Cable Clamp	TM2PNJ
2 A			Bulk Pack	TM2PN BULK
		1/4" (6.35mmø) Mono Phone plug, Right angle, Jaws cable clamp*, Thermoplastic back- shell,	Standard	TM2RJ
	-23.9   2.12	Satin finish.	Gold Plated Contacts	TM2RJ-AU
		1/4" (6.35mmø) Mono Phone plug, Right angle, Jaws cable clamp*,	Standard	TM2RBJ
		Thermoplastic back- shell, Black finish.	Gold Plated Contacts	TM2RBJ-AU
i de la constanción de			Bulk Pack	TM2RBJ BULK
	615 [2 42]	1/4" (6.35mmø) Stereo Phone plug, Right angle, Jaws cable clamp*, Thermoplastic back- shell,	Standard	TS3RJ
		Satin finish.	Gold Plated Contacts	TS3RJ-AU
		1/4" (6.35mmø) Stereo Phone plug, Right angle, Jaws cable clamp*, Thermoplastic back- shell,	Standard	TS3RBJ
		Black finish.	Gold Plated Contacts	TS3RBJ-AU

\*NOTE: Refer to page 101 for Jaws cable clamp specifications applicable to right angle connectors.





## **T-Series (Jumbo)**

- Features: JUMBO Cable clamping capacity Suits Cable OD 7.5mm (0.295") to 10.5mm (0.413")
- · Mono or Stereo (TRS).
- Stylised shell design with Ergonomic grip.
  Robust diecast shell in Satin nickel or Black finish.
- Nickel or Gold contact plating.
- Keyed shell.
- Great solderability.
- Increased solder area on ground contact.
- · Precision machined contacts.
- Quick and easy assembly.

### **Options:** Gold Contacts, Bulk Pack Specifications: Page 101

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		94 [3.690"]	1/4" (6.35mmø) JUMBO Mono Phone plug, Thermoplastic back- shell, Satin finish.	Standard Gold Plated Contacts	JM2P JM2P-AU
		AMPHENOL 610		Bulk Pack	JM2P BULK
		94 [3.690"]	1/4" (6.35mmø) JUMBO Mono Phone plug, Thermoplastic book	Standard	JM2PB
			Thermoplastic back- shell, Black finish.	Gold Plated Contacts	JM2PB-AU
	<b>-</b>	94 [3.690"]	1/4" (6.35mmø) JUMBO Stereo Phone plug, Thermoplastic back- shell, Satia ficiale	Standard	JS3P
			Satin finish.	Gold Plated Contacts	JS3P-AU
		94 [3.690"]	1/4" (6.35mmø) JUMBO Stereo Phone plug, Thermoplastic back- shell, Plast fiziala	Standard	JS3PB
			Black finish.	Gold Plated Contacts	JS3PB-AU

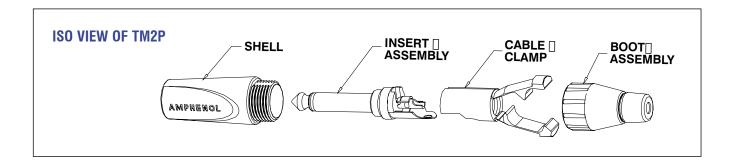
NOTE: Contact factory for availability of metal backshells.



## PART NUMBER BREAKDOWN

T-SERIES (PRO RANGE)

E. G . TS3PBMJ-AU BULK T (Series Prefix), S3 - AU (Gold Plated Co	(Stereo), Plug	g Black, Meta Packaged.	l Nut (Black), J (Large Jaws),
SERIES PREFIX	Т	=	Series Prefix
CONTACT TYPE	M1	=	Switch Plug
	M2	=	2 Pole (mono)
	S3	=	3 Pole, tip/ring/sleeve (stereo)
SHELL TYPE And Finish	Р	=	Plug Satin Nickel
	РВ	=	Plug Matt Black
	R	=	Right Angle Plug Satin Nickel
	RB	=	Right Angle Plug Matt Black
BACKSHELL TYPE	Blank	=	Plastic Nut
	М	=	Metal Nut - Black
	Ν	=	Metal Nut - Satin Nickel
CABLE CLAMP	Blank	=	Small Jaws
	J	=	Large Jaws
CONTACT PLATING	Blank	=	Nickel Plated Contacts (Standard)
	AU	=	Gold Plated Contacts
PACKAGING	Blank	=	Individual Bags
	BULK	=	Bulk Packed







## **T-Series SwitchPlug**

The Amphenol T series SwitchPlug uses a unique 360 degree precision sliding helical spring contact design to quietly and accurately switch the signal circuit safely to ground during instrument changes under load, thereby avoiding annoying thumps, pops and squeals. The sliding ring contact self-cleans every time the plug is connected preventing excessive build up of oxidization and contamination. Activation is directly off the jacks full front face assuring a positive reference point every time, and as it works instantaneously on the main circuits there is no need for the use of magnets or other elaborate switching mechanisms.

WARNING! For use with instrument (guitar) applications only. Part Number Breakdown: Page 97 Specifications: Page 101

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)		DESCRIPTION	VARIATIONS	PART NUMBER
		[0	1/4" (6.35mmø) Switch Phone plug, Jaws cable clamp, Thermoplastic	Standard	TM1P
and James and Par	98.6 [3.883"]	□ → → ∞16 [0.630"]	backshell, Satin finish	Gold Plated Contacts	TM1P-AU
64-				Large Cable Clamp	TM1PJ
			1/4" (6.35mmø) Switch Phone plug, Jaws cable clamp, Thermoplastic	Standard	ТМ1РВ
1 1-0-2	98.6 [3.883"]	B3 <sup>[]</sup> Black finish	backshell,	Gold Plated Contacts	TM1PB-AU
			Large Cable Clamp	TM1PBJ	
			1/4" (6.35mmø) Switch Phone plug, Right angle, Jaws cable clamp*, Thermoplastic backshell,	Standard	TM1RJ*
			Satin Finish	Gold Plated Contacts	TM1RJ-AU*
			1/4" (6.35mmø) Switch Phone plug, Right angle, Jaws cable clamp*, Thermoplastic backshell,	Standard	TM1RBJ*
	58.312.296 <sup>-1</sup>		Black Finish	Gold Plated Contacts	TM1RBJ-AU*

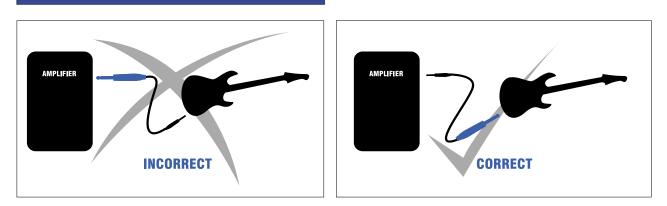
\*NOTE: Refer to page Page 101 for Jaws cable clamp specifications applicable to right angle connectors.



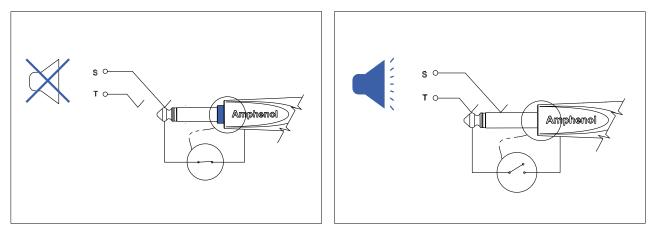
### **SwitchPlug - User Instruction**



Use with instrument (guitar) cables only. DO NOT connect to amplifier output. Equipment damage may result from incorrect use.



## SwitchPlug - Technology\*



\*US Patent No. 8,162,697



### Plugs & Jacks Q-Series Plugs



PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
31-33		83 [3.266*] 53 [2.073*] Amphenol	1/4" (6.35mmø) Mono Phone plug, Chuck cable clamp, Molded boot, Satin Finish	Standard	QM2P
31-3		83 [3.266*]	1/4" (6.35mmø) Mono Phone plug, Chuck cable clamp, Molded boot, Black Finish	Gold Plated Contacts	QM2PB-AU
MT-D		-83 [3.266*] 	1/4" (6.35mmø) Stereo Phone plug, Chuck cable clamp, Molded boot, Satin Finish	Standard	QS3P
37-3		83 [3.266*] 53 [2.073*]	1/4" (6.35mmø) Stereo Phone plug, Chuck cable clamp, Molded boot, Black Finish	Gold Plated Contacts	QS3PB-AU



## **1/4" PHONE PLUG TECHNICAL DATA**

		]		VALUE	
		-	Straight	Right Angle	Jumbo
GENERAL	Number of C	Contacts		3 Pole Tip Ring Sleeve (Stereo)	
CHARACTERISTICS	Termination			Solder	
	Max. Wire G	auge - Stranded Wire		2 Pole (Mono): AWG 16~ 1.5mm 3 Pole (Stereo): AWG 18~ 1mm	I
	Flammability	/ rating of insulating plastics		UL94V-0	
	Solderability	r, complies with		IEC 68-2-20	
	Environmen	tal	Complie	es with EU RoHS 2 Directive 201	1/65/EU
ELECTRICAL	Current Carr	ying Capacity	10	)A (Depends on Mating Connector and Cab	le)
CHARACTERISTICS	Typical Con	tact Resistance		Depends on Mating Connector	
	Insulation R	esistance (initial)		>2GΩ	
	After Damp	Heat Test		≥1GΩ	
	Dielectric W	ithstand Voltage		2 Pole : 1.5 kV dc	
	DIEIECUIC			3 Pole : 1 kV dc	
CLIMATIC	Protection C	lass		IP40	
CHARACTERISTICS	Operating Te	emperature	-2	$25^{\circ}$ C to +75°C (-13°F to + 167°	F)
MECHANICAL	Insertion and	d Withdrawal Force		≥10N - ≤30N	
CHARACTERISTICS	Weight <sup>1</sup>	Thermoplastic Backshell		28g (0.061lb)	
	Woight	Metal Backshell		35g (0.077lb)	
	Typical Cab	le Retenton Force	22kg to 44kg (50lb to	o 100lb) - Dependent on cable n	naterial and diameter.
		Standard Jaw (T-Series)	3mm to 6mm (0.118" to 0.236")	3mm to 5.5mm (0.118" to 0.216")	N/A
	Cable O.D.	Large Jaw (T-Series)	6mm to 7mm (0.236" to 0.275")	5.5mm to 6.5mm (0.216" to 0.255")	N/A
	Cable 0.D.	Standard Clamp (Q-Series)	3.5mm to 7mm (0.137" to 0.275")	N/A	N/A
		Jumbo	NA	NA	7.5mm to 10.5mm (0.295" to 0.413")
	Mechanical	Operations		1000	
MATERIALS	Connector S	Shell Material		Diecast Zinc Alloy EZDA No.3	
	Shell Finish			Satin Nickel or Black Polyester	
	Insulators		UL94 V-0	PBT Resin or Modified PPE Res	in - Black
	Boot / Backs	shell	UL94 V-0 PBT Resi	n or Modified PPE Resin - Black	or Metal CuZn <sup>39</sup> Pb <sup>3</sup>
	Cable Clam	0	UL94	V-0 PBT Modified PPO Resin - I	Black
	Cable Bushi	ng		Santoprene	
	Contacts / P	Plating		Brass/Ni or Au over 2µm Ni	

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



Rev 6 - 10/2017



## **Musician Series II**

### Features:

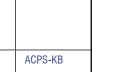
- · Mono or Stereo (TRS).
- AX Series inspired shell design.
- Large cable O.D. Entry to 8mm (0.315") · Robust diecast shell in Satin nickel
- or Black finish. Nickel or Gold contact plating.
- Flexible grommet cable protection.
- Improved solderability.
- Precision machined contacts.
- · Standard or Bulk packaging.

**Options:** Black Shell, Gold contacts. Coloured grommets (ordered separately)

### **Specifications: Page 112**

PRODUCT DESCRIPTION VARIATIONS DRAWING Dimensions in mm (inches) PART NO. Standard ACPM-KN 1/4" (6.35mmø) Mono Phone plug, 79 [3.115"] ø13.8 ø.543" Diecast Shell, Satin finish, 49 [1.922"] ø Flexible grommet. ACPM-KN-AU Gold Plated Contacts Ampheno 1/4" (6.35mmø) ACPM-KB Standard Mono Phone plug, 79 [3.115"] @13.8 [@.543"] Diecast Shell, Black finish, 49 [1.922"] Flexible grommet. Gold Plated ACPM-KB-AU Contacts 10 Amohe Standard ACPS-KN 1/4" (6.35mmø) Stereo Phone plug, 79 [3.115"] 13.8 .543"] Diecast Shell, Satin finish, 49 [1.922"] 66 Flexible grommet. Gold Plated ACPS-KN-AU Contacts Amohen Standard ACPS-KB 1/4" (6.35mmø) Stereo Phone plug, 79 [3,115"] ø13.8 [ø.543"] Diecast Shell, Black finish, 49 [1.922"] Flexible grommet. Gold Plated ACPS-KB-AU Contacts Amphan 10

\*NOTE: Refer to page 103 for Jaws cable clamp specifications applicable to right angle connectors.



Turkey&MiddleEast

<u>Amp</u>



Cable O.D 6.5mm to 8mm (0.256" to 0.315")

### Plugs & Jacks Musician Series II Plugs

PRODUCT	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NO.
	61 [2.402"]	1/4" (6.35mmø) Mono Phone plug, Right angle, Diecast Shell, Satin finish,	Standard	ACPM-TN
	MAX. [1.205"] [.197"] [.1941"]	Flexible grommet.	Gold Contacts	ACPM-TN-AU
No.	30.6 [ 5.0 [.		Bulk Pack	ACPM-TN BULK
	61 [2.402"]	1/4" (6.35mmø) Mono Phone plug, Right angle, Diecast Shell, Black finish,	Standard	АСРМ-ТВ
	MAX. MAX. [.197"]	Flexible grommet.	Gold Contacts	ACPM-TB-AU
<b>N</b> o	30.6 [1. 5.0 [.19		Bulk Pack	ACPM-TB BULK
	61 [2.402"]	1/4" (6.35mmø) Stereo Phone plug, Right angle, Diecast Shell, Satin finish,	Standard	ACPS-TN
	[1.205"] MAX. [.197"] 49.3 [1.941"]	Flexible grommet.	Gold Contacts	ACPS-TN-AU
NR3	30.6 [1 5.0 [.1		Bulk Pack	ACPS-TN BULK
		1/4" (6.35mmø) Stereo Phone plug, Right angle, Diecast Shell, Black finish,	Standard	ACPS-TB
	[1.205"] MAX. [.197"] .49.3 [1.941"]	Flexible grommet.	Gold Contacts	ACPS-TB-AU
100	30.6 [1.2 5.0 [.19		Bulk Pack	ACPS-TB BULK





#### Features:

- Mono or Stereo (TRS).
- Stylish shell design.Robust diecast shell in Satin nickel or Black finish.

- Nickel or Gold contact plating.
  Flexible grommet cable protection.
  Improved solderability.
  Precision machined contacts.
  Standard or Bulk packaging.
  Cable OD Entry to 6.5mm (0.256")

**Options:** Black Shell, Gold contacts. Coloured grommets (ordered separately)

### **Specifications: Page 115**

### **Clamp Info:**



Cable O.D 3mm to 6.5mm (0.118" to 0.256")

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	4		1/4" (6.35mmø) Mono Phone plug, Diecast Shell, Satin finish,	Standard	ACPM-GN
			Flexible grommet.	Gold Plated Contacts	ACPM-GN-AU
N <sub>a</sub>				Bulk Pack	ACPM-GN BULK
	7	— 79 [3.115"] و الم من من م	1/4" (6.35mmø) Mono Phone plug, Diecast Shell, Black finish,	Standard	ACPM-GB
			Flexible grommet.	Gold Plated Contacts	ACPM-GB-AU
				Bulk Pack	ACPM-GB BULK
	<		1/4" (6.35mmø) Stereo Phone plug, Diecast Shell, Satin finish,	Standard	ACPS-GN
			Flexible grommet.	Gold Plated Contacts	ACPS-GN-AU
1 and a second				Bulk Pack	ACPS-GN BULK
	4	— 79 [3.115"] ه به	1/4" (6.35mmø) Stereo Phone plug, Diecast Shell, Black finish,	Standard	ACPS-GB
			Flexible grommet.	Gold Plated Contacts	ACPS-GB-AU
	~ <del>~ .</del>			Bulk Pack	ACPS-GB BULK



### Plugs & Jacks Musician Series II Plugs

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	ТҮРЕ	PART NUMBER
100 m		1 [2.402"]	1/4" (6.35mmø) Mono Phone plug, Right angle, Diecast Shell, Satin finish,	Standard	ACPM-RN
C.	[1.205"]	MAX. [.197	Flexible grommet.	Gold contacts	ACPM-RN-AU
		50 0		Bulk Pack	ACPM-RN BULK
		51 [2.402"]	1/4" (6.35mmø) Mono Phone plug, Right angle, Diecast	Standard	ACPM-RB
	[1.205"	MAX	Shell, Black finish, Flexible grommet.	Gold contacts	ACPM-RB-AU
	30.6	ں ت		Bulk Pack	ACPM-RB BULK
			1/4" (6.35mmø) Ste- reo Phone plug, Right angle, Diecast Shell,	Standard	ACPS-RN
	[1.205"] MAX. [.197"]	Satin finish, Flexible grommet.	Gold contacts	ACPS-RN-AU	
A.				Bulk Pack	ACPS-RN BULK
		61 [2.402"]	1/4" (6.35mmø) Ste- reo Phone plug, Right angle, Diecast Shell,	Standard	ACPS-RB
		(1.197")	Black finish, Flexible grommet.	Gold contacts	ACPS-RB-AU
A.				Bulk Pack	ACPS-RB BULK



Musician Series II Plugs

## PART NUMBER BREAKDOWN

M / M SERIES II (MUSICIAN RANGE)

E. G . ACPM-GB-AU BULI ACP (Series Prefix), - AU (Gold Plated C	Male, G(Shel		ж,
SERIES PREFIX	ACP	=	Series Prefix
CONTACT TYPE	М	=	2 pole (Mono)
	S	=	3 pole Tip/Ring/Sleeve (Stereo)
SHELL TYPE	G	=	M Series Straight
	К	=	M Series II Straight
	R	=	M Series Right Angle
	Т	=	M Series II Right Angle
SHELL FINISH	Ν	=	Satin Nickel
	В	=	Matt Black
CONTACT PLATING	Blank	=	Nickel Plating
	AU	=	Gold Plated
PACKAGING	Blank	=	Individual Bags
	BULK	=	Bulk Packed





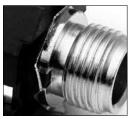
## **Applications**

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

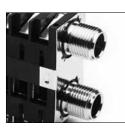
## Features / Options – OEM RANGE

- **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 • 1/4" (6.35mm)
- 3.5mm
- Dual 1/4" (6.35mm) and 3.5mm · EMI Shielding plates
- · Metal Mounting threads
- · Plastic Mounting threads
- · Chassis Ground connections
- · Half, Full or No threads
- · Grounded or Isolated Jacks

#### 1/4" Phone Jack Grounding/ **Shielding Options**



1/4" Gripper - Grounding points



1/4" Shielding Plate

## **Plugs & Jacks** Musician / OEM Range 1/4" Phone Jacks

# 1/4" PHONE JACK **CONNECTORS**

Amphenol phone connectors are available in 1/4" (6.35mm) and 3.5mm jack sockets or dual jack socket versions featuring combinations of both sizes. The standard heavy duty contacts provide excellent signal performance and the rugged designs excel in professional audio applications. Our wide range of options ensures we have the connector to suit your specific requirements. Custom jacks can also be developed to suit unique applications on request.

## **Ordering Codes**

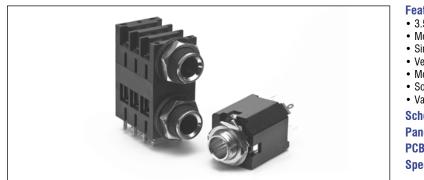
We have listed the more common ordering codes in each section. Please contact us if you need any further assistance.

#### 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.



Musician / OEM Range 1/4" Phone Jacks



#### Features:

- Gatures:
  3.5mm and 6.35mm (1/4") options
  Mono or Stereo (TRS)
  Single or Dual mounting
  Vertical or Horizontal PCB mount
  Mono and Stereo with switching contacts
- Solder or Combo contacts
- Various mounting option

Schematic Chart: Page 113 Panel Cutouts: Page 112 PCB Footprints: Page 114 Specifications: Page 116

	PRODUCT - FIGURE	DRAWING	Dimensions in mm (inch	ies)	DESCRIPTION	VARIATIONS	PART NUMBER
3.51	MM PHONE JACKS	1 0 0			3.5mm Jack, Horizontal PCB, Plastic housing, Metal entry bore	Mono	ACJM-NH35
			3 [.118"]	7"]	Metal entry Dore	Stereo	ACJS-NH35
			["+ [		3.5mm Jack, Vertical	Refer to Schematic	ACJM-NV35-2
		=24 [.943*] 23 [.896*]			PCB mount, Needle eye contacts, Plastic	Chart on page 113	ACJM-NV35-2S
					housing, Metal entry bore		ACJS-NV35-3
	N 86	27 [1.057			DOIG		ACJS-NV35-3S
		- 30.4 [1.195"	']⊷ <sup>-</sup> ⊷ [.620"] <sup>k</sup>				ACJS-NV35-5
	100		WETAL WASHER		3.5mm Jack, Vertical	Refer to Schematic	ACJM-MV35-2
	-	4 [.159*]	4 [.159"]	- <u>+</u>	PCB mount, Needle eye contacts, Plastic housing, Metal thread and entry bore	Chart on page 113	ACJM-MV35-2S
	(FE			16 620"]			ACJS-MV35-3
	- 100	<u>جه</u>				ACJS-MV35-3S	
			NUT 2.5mm THICK				ACJS-MV35-5
					3.5mm / 1/4" (6.35mmø) Dual Phone Jack, (Piggyback),	Mono	ACJM-MHD985
	C				Horizontal PCB, Plastic housing, Metal nut and entry bore	Stereo	ACJS-MHD985
			a— 35 [1.360"]—a ⊨24 [ 931"]		3.5mm / 1/4"	Refer to Schematic	ACJM-MVD985-2
	1			<u>,</u>	(6.35mmØ) Dual Phone Jack, Vertical	Chart on page 113	ACJM-MVD985-2S
	- 50			32 [1.241"]-	PCB mount, Needle eye contacts, Plastic		ACJS-MVD985-3
	-	SIDE VIEW	- 24 [.947"] - 16	<u> </u>	housing, Metal nut and entry bore		ACJS-MVD985-3S
			→27 [1.061 <sup>*</sup> ]→				ACJS-MVD985-5
1/4"	PHONE JACKS HORI	ONE JACKS HORIZONTAL			1/4" (6.35mmø) Phone Jack, Horizontal Snap-fit PCB, Plastic bousing, Half thread	Mono	ACJM-HHDR
		4.50 1777 1777 1777 1777 1777 1777 1777 17			housing, Half thread, Metal entry bore. Supplied without mounting hardware.	Stereo	ACJS-HHDR



Musician / OEM Range 1/4" Phone Jacks

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
alle.			1/4" (6.35mmø) Phone Jack, Horizontal Snap-fit PCB, Plastic housing, Metal nut and	Mono	ACJM-MHDR
	4.50 [.177] - [.177] [.17P] - [.17P] -	╈╫╫╫┑╶╓ <del>┉┉┉┉</del>	entry bore	Stereo	ACJS-MHDR
Real	8.6 [.339"]		1/4" (6.35mmø) Phone Jack, Horizontal Snap-fit PCB, Plastic housing, Metal thread,	Mono	ACJM-MHDRM
	4.50 [.177]	╨╫╫╫┙╺╹╋ <del>ᡋ┥╔┥</del> ╕ ┙	nut, washer and entry bore	Stereo	ACJS-MHDRM
1110			1/4" (6.35mmø) Offset Jack, Horizontal PCB mount, Plastic housing and entry bore with	Refer to Schematic Chart on page 113	ACJM-HHOP
"HE	6.4 [.253"] = 5.8 = [.620"] = 75		Half thread. Supplied without mounting define St		ACJS-HHOP
1.T.C.	500"]] <del>-</del> 6.5		1/4" (6.35mmø) Offset Jack, Horizontal PCB mount, Plastic housing and entry bore with	Refer to Schematic Chart on page 113	ACJM-HHOP-1
- Million	6.4 [.253"] 15.8 [.620"] - 5.8	8.9 21.36 [.350"]	Half thread. Supplied without mounting hardware.		ACJS-HHOP-1
			1/4" (6.35mmø) Offset Jack, Horizontal PCB mount, Plastic housing, thread and	Mono - Plastic Nut	ACJM-PHOP
				Mono - Metal Nut	ACJM-MHOP
			entry bore	Stereo - Plastic Nut	ACJS-PHOP
-	[.620"] - <sup>2</sup>			Stereo - Metal Nut	ACJS-MHOP
A.c.	- 5.5 256"]	24.3 [.957*]	1/4" (6.35mmø) Offset Jack, Horizontal PCB	Refer to Schematic Chart on Page 110	ACJM-PHOP-1
55 10			mount, Plastic housing, thread and entry bore.	PHOP - Denotes Plastic Nut	ACJM-MHOP-1
- ARICO	6.4 [.253"] 15.8 [.620"] - K	8.9 [.350"] 21.36 [.841"] -	Non-switching sleeve contact with separate	MHOP - Denotes	ACJS-PHOP-1
	[.620"]		grounding to panel.	Metal Nut	ACJS-MHOP-1
ATL2	500 <sup>-1</sup> - 500 <sup>-1</sup> - 6.5 [.256 <sup>-1</sup>		1/4" (6.35mmø) Offset Jack, Horizontal PCB mount, Plastic housing, Metal thread	Mono - Metal Nut	ACJM-MHOM
	6.4 [.253"] 15.8 [.620"] M <sup>2</sup>	8.2 [.323"] 0.5 [.323"] [.020"] - 21.85 [.860"] -	and entry bore with Chassis ground con- nection	Stereo - Metal Nut	ACJS-MHOM
(Can			1/4" (6.35mmø) Jack, Horizontal PCB mount, Plastic housing with metal insert	Mono - Plastic Nut	ACJM - PH
A CO			שונוז וווכלמו וווסכונ	Mono - Metal Nut	ACJM - MH



Musician / OEM Range 1/4" Phone Jacks

PRODUCT - FIGURE	DRAWING	Dime	nsions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
Ellin.	8.0 [.315"]			1/4" (6.35mmø) Jack, Horizontal PCB mount, Plastic housing with metal insert	Stereo - Plastic Nut	ACJS - PH
	4.00 [157]	╾╜┶┧┝╾╽┶┧┶┙────╀	└╜╏┢╼╠╼╏╴───╷		Stereo - Metal Nut	ACJS - MH
Pa	5			1/4" (6.35mmø) Jack, Horizontal	Mono - Plastic Nut	ACJM-PHR
8497	0 m 8.0 [.315"]			Snap-fit PCB mount, Plastic housing with	Mono - Metal Nut	ACJM-MHR
1100		┕╢┶┧╾┧	€ <u>  <del>           </del>  </u>	metal insert	Stereo - Plastic Nut	ACJS-PHR
	4.00 [.157" TYP				Stereo - Metal Nut	ACJS-MHR
	ං. හා 8.0 [.315"] <del>.]</del>			1/4" (6.35mmø)	Mono - Plastic Nut	ACJM-PC
Leco	8.0 [.315"]			Jack, Combination Horizontal PCB and	Mono - Metal Nut	ACJM-MC
100			╚╢╠╋╋╋┙╵╵╧	Solder lug, Plastic housing with	Stereo - Plastic Nut	ACJS-PC
6	8.50 [.335			metal insert	Stereo - Metal Nut	ACJS-MC
				1/4" (6.35mmø) Jack,	Mono - Plastic Nut	ACJM-PHS
SER	8.0 [.315*]			Solder Lug, Plastic housing with metal	Mono - Metal Nut	ACJM-MHS
1110				insert	Stereo - Plastic Nut	ACJS-PHS
	7.50 [.295"] TYP				Stereo - Metal Nut	ACJS-MHS
Germo	800 11.00 11	[.433"]	2.10 [1.264*] 8.5 [.335*]	1/4" (6.35mmø) Jack, Solder Lug, Plastic housing and Bezel with	Mono	ACJM-IHS
	20.00 [.787"]	<u>କୁ</u> ଳୁ ∦∭ ∳	н н н ⊻ ОООО т + + + 4.0 [.157*] ТҮР	threaded Metal nut.	Stereo	ACJS-IHS
Sim	[.315 <sup>]</sup>			1/4" (6.35mmø) Jack, Horizontal PCB mount, Plastic housing and Bezel with threaded	Mono	ACJM-IH
ALL C	4.00 4.00 1.10 1	Ŵ <u>╢╷╢╢╢</u> ┙ ┙	╙╢╞╫╡╗╴╴	Metal nut.	Stereo	ACJS-IH
" PHONE JACKS HORI		e"] =-33.5 [1.319"] e"] =		1/4" (6.35mmø) Dual Phone Jack (Compact Piggyback), Horizontal Snap-fit PCB, Plastic	Mono	ACJM-MHDC
	450 (1771) (1777) (177)			housing, Metal nut and entry bore	Stereo	ACJS-MHDC
Alla.	88.3 [1,182]- 000 1 [6.85] - 1 [6.85] - 1 [6.85] - 1 [6.85] - 1 [6.85] -			1/4" (6.35mmø) Dual Phone Jack (Compact Piggyback), Horizontal Snap-fit PCB, Plastic	Mono	ACJM-MHDCM
A DE LA CAR		<mark>╶┊<mark>╶</mark>┫┦╽┰╟┰╟┰╵ <sup>╬</sup>┊<sup>8</sup></mark>	t	Snap-fit PCB, Plastic housing, Metal thread, nut and entry bore	Stereo	ACJS-MHDCM



Musician / OEM Range 1/4" Phone Jacks

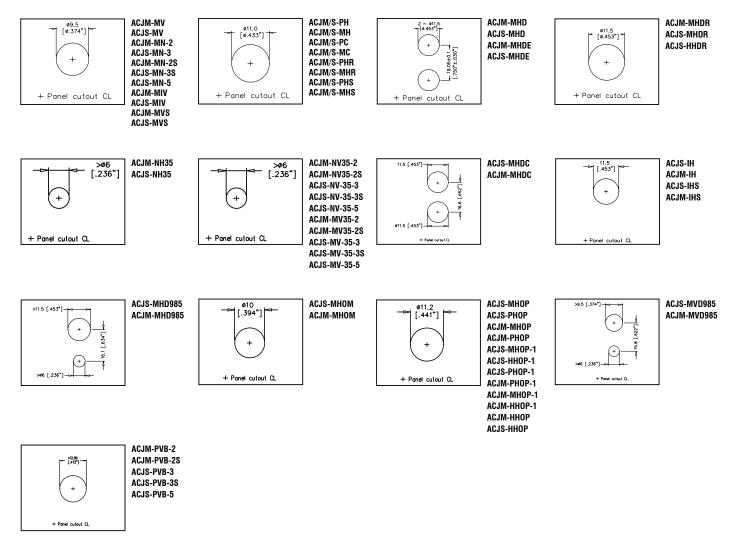
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
Luc.	1.00 1.00		1/4" (6.35mmø) Dual Phone Jack (Piggyback) Horizontal Snap-fit PCB, Plastic	Mono	ACJM-MHD
LEILE OG	housing, Metal nut and entry bore	Stereo	ACJS-MHD		
Alter.	-31.8 [1.250 <sup>-</sup> ] + -31.8 [1.250 <sup>-</sup> ] + -31.8 [1.250 <sup>-</sup> ] + -1.25.55 -1.25.55 -1.25.55		1/4" (6.35mmø) Dual Phone Jack (Pig- gyback) Shielding plate, Horizontal Snap-fit PCB,	Mono	ACJM-MHDE
			Plastic housing, Metal nut and entry bore	Stereo	ACJS-MHDE
	118 [1260 <sup>1]</sup>		1/4" (6.35mmø) Dual Phone Jack (Pig- gyback), Horizontal Snap-fit PCB, Plastic	Mono	ACJM-MHDM
Marine Constant			housing, Metal thread, nut, washer and entry bore	Stereo	ACJS-MHDM
Alla.			1/4" (6.35mmø) Dual Phone Jack (Piggy- back), Shielding plate	Mono	ACJM-MHDEM
			Horizontal Snap-fit PCB, Plastic housing, Metal thread, nut and entry bore	Stereo	ACJS-MHDEM
/4" PHONE JACKS VER	ICAL		1/4" (6.35mmØ) Jack,	Refer to Schematic	ACJM-PVB-2
	14.5 [.571"] [=		Vertical PCB mount, Plastic housing,	Chart on page 113	ACJM-PVB-2S
	15.0 [1910] [1910] [1910] [1910]		nut and entry bore		ACJS-PVB-3
					ACJS-PVB-3S
Alle	<sup>†</sup>	[0.047"-0.059"] 24.0 [.945"]			ACJS-PVB-5
		16	1/4" (6.35mmø) Jack,	Refer to Schematic Chart on page 113	ACJM-MIV-2
Dat	7 [.280*]		Vertical PCB mount, Needle eye contacts,		ACJM-MIV-2S
1.0			Plastic thread, Metal nut and insert		ACJS-MIV-3
					ACJS-MIV-3S
	a–24 [.945"]⊨				ACJS-MIV-5
	⊨24 [.945"]⊨		1/4" (6.35mmø) Jack,	Refer to Schematic	ACJM-MN-2
0 0		→ 7 [.276"]	Vertical PCB mount, Needle eye contacts,	Chart on page 113	ACJS-MN-3
			Star washer, Metal nut and insert		ACJM-MN-2S
4000					ACJS-MN-3S
		Т			ACJS-MN-5
	24 [.945"] ⊨=-		1/4" (6.35mmø)	Refer to Schematic	ACJM-MV-2
000		Jack, Vertical PCB mount, Metal nut	Chart on page 113	ACJM-MV-2S	
		and insert		ACJS-MV-3	
A GOA					ACJS-MV-3S
		ľ			ACJS-MV-5



Musician / OEM Range 1/4" Phone Jacks

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		16	1/4" (6.35mmø)	Refer to Schematic	ACJM-MVS-2
			Jack, Solder Lug, Metal nut	Chart on Page 110	ACJM-MVS-2S
1100			and insert		ACJS-MVS-3
	w <sup>±</sup> m w <sup>±</sup> m				ACJS-MVS-3S
		-			ACJS-MVS-5

# PANEL CUTOUTS





-04 -05 -02 -03

01

# **SCHEMATIC CHART**

PART NO.	ACJM-MV35-2 ACJM-MN-2 ACJM-NV35-2 ACJM-PVB-2 ACJM-MV-2 ACJM-MV5-2 ACJM-MIV-2	ACJM-MV35-2S ACJM-MN-2S ACJM-NV35-2S ACJM-PVB-2S ACJM-MV-2S ACJM-MVS-2S ACJM-MVS-2S ACJM-MIV-2S	ACJS-MV35-3 ACJS-MN-3 ACJS-NV35-3 ACJS-PVB-3 ACJS-MV-3 ACJS-MV5-3 ACJS-MIV-3	ACJS-MV35-38 ACJS-MN-38 ACJS-NV35-38 ACJS-PVB-38 ACJS-MV-38 ACJS-MVS-38 ACJS-MVS-38	ACJS-MV35-5 ACJS-MN-5 ACJS-NV35-5 ACJS-PVB-5 ACJS-MV-5 ACJS-MVS-5 ACJS-MIV-5
GENERAL SCHEMATIC	[ 3 1		↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	4	4 5 2 3 1
PART NO.	ACJM-MVD985-2	ACJM-MVD985-2S	ACJS-MVD985-3	ACJS-MVD985-3S	ACJS-MVD985-5
SCHEMATIC	[] 0 8 0 6		0 9 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	[]√ ° <sup>9</sup> ∧ ° <sup>7</sup> 8 ° 8	9 0 0 0 0 0 7 0 8 0 6

	SCHEMATIC	соб П	Гоб	۰ ق م م م م م م م م م م م م م م م م م م م	└───o 6 ∏ √───o 4	╷└─── ║╷╱┬═╴
		۰ م م ا		۰ ۲ ۱		
1						1
	PART NO.	ACJM-HHOP-1 ACJM-PHOP-1	ACJS-HHOP-1 ACJS-PHOP-1	ACJM-HHOP ACJM-PHOP	ACJS-HHOP ACJS-PHOP	
		ACJM-MHOP-1	ACJS-MHOP-1	ACJM-MHOP	ACJS-MHOP	
	GENERAL Schematic		RN RN C C C C C C C C C C C C C C C C C		R R R R R R R R R R R R R R R R R R R	



## Plugs & Jacks Musician / OEM Range 1/4" Phone Jacks

PCB FOOTPRINT - CONNECTOR SIDE OF PCB ACJM-MV ACJM-PH ACJM-MHD 2.25 [.089\*] ACJS-MV ACJM-MH 6.38 [.251\*] 8.15 [.321"] 8.15 [.321"] ACJS-MHD 0.56 [.022\*] ACJM-MN-2 ACJS-PH ACJM-MHDE [.094"] 13~#1,40±0, [.251"] 6.38 4.67 [.184"] ACJS-MN-3 11111 ACJS-MH 85 ACJS-MHDE 2.40 ACJM-MN-2S ACJM-PC ACJM-MHDEM 4.6 ACJS-MN-3S ACJM-MC ACJS-MHDEM 250 [.197] 0 0 ACJS-MN-5 ACJS-PC ACJM-MHDC .251 ACJM-NV35-XX .246 5.0 ACJS-MC ACJS-MHDC 0 0 •2.1 •083 ACJM-MV35-XX 6.38 .022"] ACJM-MHDCM .251"] 6.25 [ 246"] 4.67 [.184"] ACJS-NV35-XX 4.55 ACJS-MHDCM 5.38 [ 0.56 [ 2.40 [.094\*] ACJS-MV35-XX 16.3 [.642"] 5.25 3.25 ACJM-MHDM ACJM-MIV-2 ACJS-MHDM 0ø1.0mm(ø.039") ()ø2.0mm(ø.078") Oø1.5mm(ø.059") + Panel cutout CL 2. 5, 8 & 11 OPTIONAL PCB HOLES FOR STEREO VERSION E OPTIONAL PCB HOLE FOR GROUND TAG ACJM-MIV-2S ACJS-MIV-3 ACJS-MIV-3S ACJS-MIV-5 ACJS-MHD985 ACJM-MHDR ACJS-IH .321"] ACJS-MHDR ACJM-IH ACJM-MHD985 6.35 [.250"] 5.85 [.230"] ACJM-PHR [.134"] [.236" 8.2 2.95 [.116"] 268" 12.70 ACJM-MHR 2.30 [.091 6.35 -6.00 3.40 0 â ACJS-PHR 6~#1.40±0.05 [#.055"+ 000"] 642 ACJS-MHR 492"] 4.63 [.182"] ACJM-HHDR 11.40 63 ACJS-HHDR  $\sim$ •2.1 •083 2.0 079 Į 13~#2.10 [#0.08] ACJM-MHDRM 7.80 [.307 .321 15 ACJS-MHDRM 6.35 [.250"] 4.25 [.167 -20.50 4.00 [.157"] 8.2 + Panel cutout CL 2, 5, 8 & 11 OPTIONAL POB HOLES FOR STEREO VERSION POB LAYOUT collevator soc 2 & 5 OPTIONAL PCB HOLES FOR STEREO VERSION O#1.5mm(0.059\*) +Panel cutout CL ACJS-MHOP-1 ACJS-MHOP ACJS-MHOM 6~ø1.50 [ø.059\*] ┌- 2~ø2.0 [ø,079\*] \$3,00 [\$,118\*] 201 AC.IM-MHOM ACJS-PHOP-1 1 201 1.50 [0.059"] 2~02.0 [0.079"] ACJS-PHOP 6~ø1,50 [ø.059"] ACJS-HHOP-1 ACJM-MHOP • ę র পুরু ĥ ጜ ሰኈ ACJM-MHOP-1 ACJM-PHOP 450 [.450"] -5 ACJM-PHOP-1 ACJM-HHOP 11.43 ACJM-HHOP-1 \_TN<sub>t</sub> <sup>RN</sup>∳⊕<sup>G</sup>∳ ACJS-HHOP RŊ Ē ТŊ S<sub>m</sub> 165 65° 120 4.75 [.187"] 4,75 [,187\*] 4.20 20 .75 [.187\*] 7.95 [.313"] 11.10 [.437"] 7,95 [,315"] 11,10 [,437"] 11.10 [.437" 45 [.687\*] 17.45 [.687\*] 17,45 [.687" + Panel cutout CL + Panel cutout CL PCB-Layout (component side) + Panel cutout CL PCB-Layout (component side) PCB-Layout (component side) ACJS-MVD985 ACJS-NH35 ACJM-PVB-2 9.15 [.360"] 5.08 200-1 ACJM-MVD985 ACJM-NH35 ACJM-PVB-2S 18 | 125"| 5.55 [.219"] ACJS-PVB-3 2.65 [.104"] 4.44 | 175 023 ACJS-PVB-3S 3-#1.60 |#.063"| 250 ACJS-PVB-5 3 Ъ 24 F2 5 5.40 10 1 52 . 0120 0.0471 .268"] 2.40 [.094"] 2.40 . 67 [.184 #2 00 I# 079 4.67 5.08 200-67 6~ø1.4 [ø.055"] 3.81 | 150" 15.80 [.622\*] 6.8 + Panel cutout CL ○ ø1.4mm(.055") ○ ø2.0mm(.079") PCB-LAYOUT PCB LAYOUT COMPONENT SIDE + Panel cutout CL



# 1/4" PLUGS 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 <sup>-1</sup> .5mm <sup>2</sup> 3 Pole (Stereo): AWG 18 <sup>-1</sup> mm <sup>2</sup>			
	Flammability rating of insulating plastics	UL94V-0			
	Solderability, complies with	IEC 68-2-20			
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU			
ELECTRICAL	Current Carrying Capacity	10A (Depends on Mating Connector and Cable)			
CHARACTERISTICS	Typical Contact Resistance	Depends on Mating Connector			
	Insulation resistance (initial) After Damp Heat Test	>2GΩ ≥1GΩ			
	Dielectric Withstand Voltage	2 Pole : 1.5 kV dc 3 Pole : 1 kV dc			
CLIMATIC	Protection Class	IP40			
CHARACTERISTICS	Operating Temperature	-25°C to +70°C (-13°F to 158°F)			
MECHANICAL	Insertion and Withdrawal Force	≥10N - ≤30N			
CHARACTERISTICS	Mating Cycles	Min. of 1000 cycles without any physical damage			
	Cable O.D. - M Series - M Series II	3mm to 6.5mm (0.118" to 0.256") 6.5mm to 8mm (0.256" to 0.315")			
MATERIALS	Connector Shell Material	Diecast Zinc Alloy EZDA No.3			
	Connector Shell Finish	Satin Nickel or Black Polyester			
	Insulators	UL94 V-0 PBT Resin or Modified PPE Resin and fibreglass laminate			
	Cable Bushing	Santoprene			
	Contact Plating	Brass / Ni over Cu (Copper)			

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



Rev 4 - 05/2014

# 1/4" JACKS TECHNICAL DATA

		VALUE			
GENERAL CHARACTERISTICS	Number of Contacts	2 Pole (Mono) 3 Pole Tip Ring Sleeve (Stereo)			
	Termination	Solder, PCB or Combo			
	Flammability rating of insulating plastics	UL94V-0			
	Solderability, complies with	IEC 68-2-20			
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU			
ELECTRICAL	Current Carrying Capacity	10A (Depends on Mating Connector and Cable)			
CHARACTERISTICS	Typical Contact Resistance	≤10mΩ			
	Insulation resistance (initial) After Damp Heat Test	$> 2G\Omega$ $\ge 10^3 Meg \Omega$			
	Rated Voltage Test Voltage AC RMS: Dielectric Strength	34V 500V			
CLIMATIC	Protection Class	IP40			
CHARACTERISTICS	Operating Temperature	-25°C to +70°C (-13°F to 158°F)			
MECHANICAL	Insertion and Withdrawal Force	≥10N - ≤30N			
CHARACTERISTICS	Mating Cycles	Min. of 1000 cycles without any physical damage			
	Weight - Straight - Right Angle	18g (0.039lb) 25g (0.055lb)			
MATERIALS	Connector Housing	Nylon PA66 30% Glass Filled			
	Metal Nut	Brass			
	Plastic Nut	Nylon PA66 30% Glass Filled			
	Washer	Fiber / Brass / Nylon PA66 30% Glass Filled			
	Contact Plating	Tin - 4μm Min. over 2μm Min.Cu (Copper) Silver - 0.3μm Min. over 2μm Min.Cu (Copper) Nickel - 2μm Min. over 2μm Min.Cu (Copper) Gold Flash - 0.05μm Min. over 2μm Min.Cu (Copper)			
	Contacts	Brass / Sn (Tin) over Cu (Copper)			

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



Rev 5 - 09/2017



## **Applications**

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

# Features / Options – RCA Plugs and Jacks

- Red, Black, White, Yellow, Blue or Green shell
- colours • Stylish shell design
- Flexible grommet cable protection
- Gold Plated Contacts

#### Features / Options – Miniature XLR

- 3,4,5, or 6 contacts
- Solder cup
- Printed Circuit Board
- Vertical or Horizontal mounting
- · Positive locking latch
- · Flexible cable clamp
- Metal cable clamp
- Locking rings
- Chassis front mount
- Chassis middle or rear mount (on request)
- Optional black finish (on request)

## Features / Options – 3.5mm Plugs

- Phone Jack
- Mono / Stereo TRS
- Solder contacts
- Suits cable 0.D 2.5mm to 5mm
- Stylised shell design
- Flexible cable grommet
- Metal cable clamp
- Nickel or Gold contact platingSatin Nickel or Black finish

## **Cable Clamp Options**



RCA Cable Clamp - M-Series, Cable O.D 3mm to 6.5mm (0.118" to 0.256")



K-Series, Cable 0.D 3mm to 5mm (0.118" to 0.196")

# PLUGS AND SOCKETS

Amphenol's plugs and sockets range continually expands to meet the needs of our customers. The success of the M-Series phone plugs led to the RCA series being developed. The Miniature XLR range was a natural progression from our standard XLR series as demand for smaller interconnects increased. The latest addition to the range is a professional grade 3.5mm phone plug designed for applications that require a robust interconnect.

## **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

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





# K-Series (3.5mm)

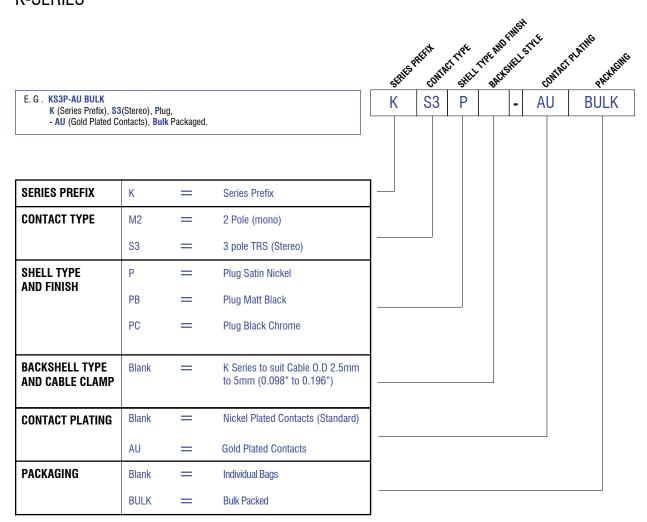
- Features: Mono or TRS (Stereo). AX Series inspired shell design.
- Suits Cable 0.D from 2.5mm to 5mm (0.098" to 0.196")
  Robust diecast shell in Satin nickel or Black finish.
- Nickel or Gold contact plating.
- Flexible grommet cable protection.Improved solderability.
- Precision machined contacts.
- Standard or Bulk packaging.
- Options: Black Shell, Gold contacts.

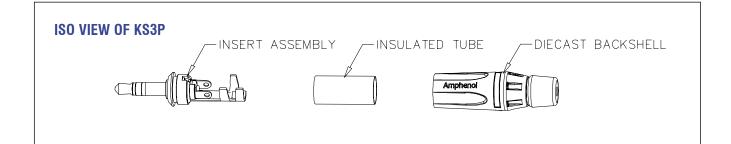
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			3.5mm, Mono Phone plug,	Standard	KM2P
			Diecast Shell, Satin finish,	Gold Plated Contacts	KM2P-AU
and a			Flexible grommet.	Bulk Pack	KM2P BULK
			3.5mm, Mono Phone plug,	Standard	KM2PB
		=35 [1.370"] ⊼ ġ	Diecast Shell, Black finish,	Gold Plated Contacts	KM2PB-AU
			Flexible grommet.	Bulk Pack	KM2PB BULK
	<b>V</b>		3.5mm, Stereo Phone plug,	Standard	KS3P
			Diecast Shell, Satin finish, Flexible grommet.	Gold Plated Contacts	KS3P-AU
- Andrew - A				Bulk Pack	KS3P BULK
	49 [1.911"]——→ m <sup>6</sup> 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	3.5mm, Stereo Phone plug,	Standard	КЅЗРВ	
- Andrew -			Diecast Shell, Black finish,	Gold Plated Contacts	KS3PB-AU
- Ho			Flexible grommet.	Bulk Pack	KS3PB BULK
			3.5mm, Stereo Phone plug with extended shaft for mobile phones fitted	Standard	KS3PC
Contraction of the second			with covers. Diecast Shell, Black Chrome finish, Flexible grommet	Gold Plated Contacts	KS3PC-AU



# PART NUMBER BREAKDOWN

**K-SERIES** 







# **3.5mm PLUG TECHNICAL DATA**

		VALUE			
GENERAL Characteristics	Number of Contacts	2 Pole (Mono) 3 Pole Tip Ring Sleeve (Stereo)			
	Termination	Solder			
	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			
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU			
ELECTRICAL	Current Carrying Capacity	>0.5mA (Depends on Mating Connector and Cable)			
CHARACTERISTICS	Typical Contact Resistance	$\leq$ 20m $\Omega$ (Depends on Mating Connector and Cable)			
	Insulation resistance (initial) After Damp Heat Test	>200M Ω >100M Ω			
	Test Voltage AC RMS: Dielectric Strength	250VAC			
CLIMATIC	Protection Class	IP40			
CHARACTERISTICS	Operating Temperature	-20°C to +65°C (-4°F to +149°F)			
MECHANICAL	Insertion and Withdrawal Force	<20N / >3N (depends on mating connector)			
CHARACTERISTICS	Cable O.D.	3mm to 5mm (0.118" to 0.196")			
	Mechanical Operations	1000 mating cycles			
	Weight	8g (0.017lb)			
MATERIALS	Connector Shell Material (Plugs)	Diecast Zinc Alloy EZDA No.3			
	Connector Shell Finish	Satin Nickel or Black Polyester			
	Insulators	PA66			
	Cable Bushing	Santoprene			
	Contacts	Brass			
	Plating	Nickel or Gold Flash			

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



## **Plugs & Jacks RCA Series**



- Features: Stylish design Flexible grommet cable protection Robust diecast shell Gold plated contacts Colour coded Good solderability Quick and easy assembly Panel mount utilises standard 'D' type housing

Part Number Breakdown: Page 122

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	["2	RCA Plug, Diecast	Red	ACPR-RED
	62 [2.445"]	Shell, Gold plated contacts, Coloured	Black	ACPR-BLK
No.	02 [2.7773 ] 0 M S	finish, Flexible coloured grommet	Yellow	ACPR-YEL
		grommer	White	ACPR-WHT
			Blue	ACPR-BLU
			Green	ACPR-GRN
		RCA Plug, Diecast	Satin / Red	ACPR-SRD
	[	Shell, Gold plated contacts, Satin finish,	Satin / Black	ACPR-SBK
What have	ο2 [2:110] κή δ	Flexible coloured arommet	Satin / Yellow	ACPR-SYL
		gronnier	Satin / White	ACPR-SWH
			Satin / Blue	ACPR-SBL
			Satin / Green	ACPR-SGR
	۲. ۲. (۲. (۲. (۲. (۲. (۲. (۲. (۲. (۲. (۲. (	RCA Jack, Diecast Shell, Gold plated contacts, Coloured	Red	ACJR-RED
1	[0 420]] . 5 4 3 [		Black	ACJR-BLK
		finish, Flexible coloured grommet	Yellow	ACJR-YEL
		gonnic	White	ACJR-WHT
			Blue	ACJR-BLU
			Green	ACJR-GRN
	["2	RCA Jack, Diecast	Satin / Red	ACJR-SRD
	با بې ۲ پې ۲	Shell, Gold plated contacts, Satin finish,	Satin / Black	ACJR-SBK
Marker Berley	54 [2.130"]	Flexible coloured grommet	Satin / Yellow	ACJR-SYL
E.		gronniet	Satin / White	ACJR-SWH
	Amphenol		Satin / Blue	ACJR-SBL
			Satin / Green	ACJR-SGR
	j <del>→</del> 50.5 [1.988"]—→j ⊑	RCA Plug, Shortened	Red	ACPL-CRD
STA		Diecast Shell, Gold plated contacts, Black	Black	ACPL-CBK
		Chrome finish, Flexible coloured	Yellow	ACPL-CYL
		grommet	White	ACPL-CWH
			Blue	ACPL-CBL
			Green	ACPL-CGR

NOTE: RCA Series comply with EU RoHS 2 Directive 2011/65/EU



**RCA Series** 

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
				Red	ACJD-RED
0			RCA Jack, Diecast	Black	ACJD-BLK
			Shell, Gold plated contacts, Nickel	Yellow	ACJD-YEL
			finish shell, coloured	White	ACJD-WHT
				Blue	ACJD-BLU
Linn		= 29.6 [1.165"] =		Green	ACJD-GRN

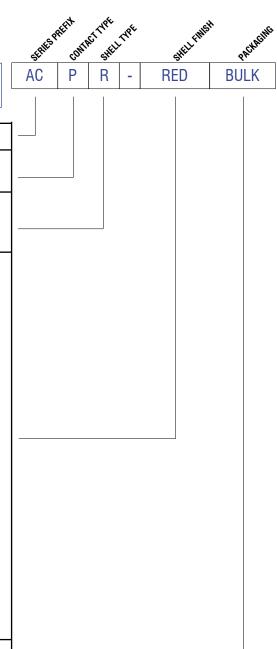
NOTE: RCA Series comply with EU RoHS 2 Directive 2011/65/EU

# **PART NUMBER BREAKDOWN** M SERIES RCA

E. G . ACPR-RED BULK

AC (Series Prefix), Plug, R(Shell type), RED (Shell and Grommet Colour), Bulk Packaged.

SERIES PREFIX	AC	=	Series Prefix
CONTACT TYPE	J	=	RCA Female Jack
	Р	=	RCA Male Plug
SHELL TYPE	R	=	Regular Shell Length
	L	=	Short Shell Length
	D	=	Chassis Jack 'D' Shell
SHELL AND	RED	=	Red, Red Grommet
GROMMET COLOUR	BLK	=	Black, Black Grommet
	YEL	=	Yellow, Yellow Grommet
	WHT	=	White, White Grommet
	BLU	=	Blue, Blue Grommet
	GRN	=	Green, Green Grommet
	SRD	=	Satin Nickel, Red Grommet
	CRD	=	Black Chrome, Red Grommet
	SBK	=	Satin Nickel, Black Grommet
	СВК	=	Black Chrome, Black Crommet
	SYL	=	Satin Nickel, Yellow Grommet
	CYL	=	Black Chrome, Yellow Grommet
	SWH	=	Satin Nickel, White Grommet
	CWH	=	Black Chrome, White Grommet
	SBL	=	Satin Nickel, Blue Grommet
	CBL	=	Black Chrome, Blue Grommet
	SGR	=	Satin Nickel, Green Grommet
	CGR	=	Black Chrome, Green Grommet
			ur of insulator only on shell type D, ell. Shell finish is Nickel.
PACKAGING	Blank	=	Individual Bags
	BULK	=	Bulk Packed





# **RCA TECHNICAL DATA**

		VALUE	
GENERAL	Number of Contacts	2	
CHARACTERISTICS	Termination	Solder	
	Max. Wire Gauge - Stranded Wire	AWG 14 - 2.5mm <sup>2</sup>	
	Flammability rating of insulating plastics	UL94V-0	
	Solderability, complies with	IEC 68-2-20	
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU	
ELECTRICAL	Current Carrying Capacity	10A (Depends on Mating Connector)	
CHARACTERISTICS	Typical Contact Resistance	$\leq$ 10m $\Omega$ (Depends on Mating Connector)	
	Insulation resistance (initial) After Damp Heat Test	$> 2G\Omega$ $\ge 10^3 \text{ Meg } \Omega$	
	Dielectric Strength	1500 V dc	
CLIMATIC	Protection Class	IP40	
CHARACTERISTICS	Operating Temperature	-25°C to +75°C (-13°F to +167°F)	
MECHANICAL	Insertion and Withdrawal Force	$\geq$ 10N - $\leq$ 30N (depends on mating connector)	
CHARACTERISTICS	Cable O.D.	3mm to 7mm (0.118" to 0.275")	
	Mechanical Operations	500 mating cycles	
	Weight - Cable Mount - Panel Mount	18g (0.039lb) 30g (0.066lb)	
MATERIALS	Connector Shell Material (Plugs)	Diecast Zinc Alloy EZDA No.3	
	Connector Shell Finish	Satin Nickel or Coloured Polyester	
	Insulators	PA66	
	Cable Bushing	Thermoplastic Polyurethane	
	Contacts	Brass Alloy	
	Plating	Gold Flash	

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



## **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 85 pins with Crimp / Solder bucket contacts
- · 150 pins with Crimp contacts only
- 4 to 48 channel
- Gold plated contacts
- · Synthetic inserts
- · Environmental resistant
- · Positive Bayonet locking
- PG cable gland
- · 2000 mating cycles
- Bayonet wear pins
- Extended coupling ring
- · Metal Housings

### Features / Options - MP-62 Series

- 39 or 61 Solder bucket contacts
- Gold plated contacts
- Neoprene inserts
- Environmental resistant
- Positive Bayonet locking
- PG cable gland or NPT thread
- Metal Housings

#### **Ordering Codes**

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

# MULTIPIN CONNECTORS

# Simple steps to guide you in using this catalogue

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



# **Multipin Connectors**

**MP-41 Series** 



# **MP-41 Series**

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 150 pins with contacts supplied with each connector as standard.

#### Features:

- 13 to 85 pins with Crimp/Solder bucket contacts
- · 150 pins with Crimp contacts only
- 4 to 48 channels
- · Gold plated contacts Synthetic insert
- · Protective dust caps
- Industry standard compatible
- 2000 mating cycles
- Black finish
  - · Positive bayonet locking
- PG cable glands
- IP67 rated
- · Metal housings

IIs. Crimp Tooling: Page 128 Part Number Breakdown: Page 128 Options: NPT threaded backshells. Specifications: Page 129 F Wiring Information: Page 141

	Dimensions in mm (inches)	Dimensio	ns in mm (iı	iches)	DINO		PART NUMBER
PRODUCT - FIGURE	DRAWING	A	B	PG	PINS	PART NUMBER	With Dustcap
	Straight cable plug with socket	40.5	160				
•	contacts, Black finish, supplied	(1.60)	(6.30)	11	13	MP-4106-13S	MP-4106-13S-C
NGT -	complete with contacts.		171				
CHILD I WAR		(1.73)	(6.73)	13.5	19	MP-4106-19S	MP-4106-19S-C
		46.6	193				
1.		(1.83)	(7.60)	16	25	MP-4106-25S	MP-4106-25S-C
NO		54.3	210				
111		(2.14)	(8.26)	21	37	MP-4106-37S	MP-4106-37S-C
		60.1	210				
		(2.36)	(8.26)	21	54	MP-4106-54S	MP-4106-54S-C
		73.3	137				
	85 and 150 contact type		(5.40)	29	85	MP-4106-85S	MP-4106-85S-C
			145				
	os ana iso contact rype	(2.88)	(5.70)	36	150	MP-4106-150S	MP-4106-150S-C
	Cable connecting receptacle with	37.8	160				
	pin contacts, black finish, supplied	(1.49)	(6.30)	11	13	MP-4101-13P	MP-4101-13P-C
CITIE Provent	complete with contacts.	41.1	171				
and the second		(1.62)	(6.73)	13.5	19	MP-4101-19P	MP-4101-19P-C
180	B	41.5	193				
		(1.63)	(7.60)	16	25	MP-4101-25P	MP-4101-25P-C
		51	210				
1111/	13, 19, 25, 37 and 54 contact type	(2.00)	(8.26)	21	37	MP-4101-37P	MP-4101-37P-C
	is, is, 25, 57 and 54 contact type	57.1	210				
		(2.25)	(8.26)	21	54	MP-4101-54P	MP-4101-54P-C
		70	137				
			(5.40)	29	85	MP-4101-85P	MP-4101-85P-C
	←	70	145				
		(2.75)	(5.70)	36	150	MP-4101-150P	MP-4101-150P-C

Note: NPT threaded backshells available on request. Please contact us.



# Multipin Connectors MP-41 Series

	Dimensions in mm (inches)		Di	mensions i	in mm (inc	hes)		DINO		PART NUMBER
PRODUCT - FIGURE	DRAWING	A	В	C	D	E	F	PINS	PART NUMBER	With Dustcap
0	Panel plug with socket contacts,	38	29.4	3.2	40.5	38.8				
	black finish, supplied complete	(1.49)	(1.15)	(0.13)	(1.60)	(1.53)	N/A	13	MP-4164-13S	MP-4164-13S-C
0/1/200	with contacts.	41	31.8	3.2	44	38.8				
1 10000		(1.61)	(1.25)	(0.13)	(1.73)	(1.53)	N/A	19	MP-4164-19S	MP-4164-19S-C
atteres		44.5	34.9	3.73	48.51	40.6				MD 4104 050 0
A . 18992	AA P=B	(1.75)	(1.37)	(0.14)	(1.91)	(1.60)	N/A	25	MP-4164-25S	MP-4164-25S-C
		50.8 (1.99)	39.7 (1.56)	3.73 (0.14)	54.3 (2.14)	42 (1.65)	N/A	37	MP-4164-37S	MP-4164-37S-C
110		57	44.5	4.39	60.8	45	N/A	57	WF-4104-373	101 101 070 0
11.		(2.24)	(1.75)	(0.17)	(2.40)	(1.77)	N/A	54	MP-4164-54S	MP-4164-54S-C
		69.8	55.5	4.39	73.3	45	,	• •		
	E	(2.74)	(2.18)	(0.17)	(2.88)	(1.77)	N/A	85	MP-4164-85S	MP-4164-85S-C
		69.8	55.5	4.39	73.3	45				
		(2.74)	(2.18)	(0.17)	(2.88)	(1.77)	N/A	150	MP-4164-150S	MP-4164-150S-C
	<b>2</b>	38	29.4	3.23	34.2	34.5	29			
1300	Panel receptacle with pin contacts, black finish, supplied complete with	(1.49)	(1.15)	(0.13)	(1.34)	(1.35)	(1.14)	13	MP-4102-13P	MP-4102-13P-C
SAP A	contacts.	41	31.8	3.23	37.4	34.5	32.2			
		(1.61)	(1.25)	(0.13)	(1.47)	(1.35)	(1.26)	19	MP-4102-19P	MP-4102-19P-C
15 68		44.5	34.9	3.73	40.9	35.7	35.3			
		(1.75)	(1.37)	(0.14)	(1.61)	(1.40)	(1.38)	25	MP-4102-25P	MP-4102-25P-C
	A	50.8	39.7	3.73	46.7	36.5	41.4	07		MP-4102-37P-C
1111		(1.99)	(1.56) 44.5	(0.14) 4.30	(1.83) 53.4	(1.44) 38.5	(1.62)	37	MP-4102-37P	WIP-4102-37P-0
1111/		(2.24)	44.5	4.30	(2.10)	(1.52)	47.8	54	MP-4102-54P	MP-4102-54P-C
		69.8	55.5	4.30	(2.10)	38.5	59	J4	IVIF-4102-J4F	
		(2.74)	(2.18)	(0.17)	(2.57)	(1.52)	(2.32)	85	MP-4102-85P	MP-4102-85P-C
		69.8	55.5	4.30	65.5	38.5	59	00		
		(2.74)	(2.18)	(0.17)	(2.57)	(1.52)	(2.32)	150	MP-4102-150P	MP-4102-150P-C
		34.16	31.5	110	4.7	× 7	. ,			
	Plug protective dustcap to suit MP-	(1.35)	(1.24)	(4.33)	(0.18)	-	-	13	MP-25042-13S	-
	4164 type.	37.36	31.5	110	4.7					
		(1.47)	(1.24)	(4.33)	(0.18)		-	19	MP-25042-19S	-
		40.87	31.5	110	4.7					
a series a		(1.61)	(1.24)	(4.33)	(0.18)	-	-	25	MP-25042-25S	-
1 2		46.68	31.5	110	4.7					
		(1.84)	(1.24)	(4.33)	(0.18)	-	-	37	MP-25042-37S	-
and the second s		53.36	31.5	110	5.5			E A	MD 05040 540	
~	نے <u>وہ</u> جا	(2.10) 65.48	(1.24) 31.5	(4.33)	(0.22)	-	-	54	MP-25042-54S	-
		(2.58)	(1.24)	(4.33)	0.22)	-	_	85	MP-25042-85S	-
		65.48	31.5	110	5.5	-			Wii 20072-000	
		(2.58)	(1.24)	(4.33)	(0.22)	-	-	150	MP-25042-150S	-
		38.8	20.7	255	·/					
	Receptacle protective dustcap to	(1.53)	(0.81)	(8.07)	-	-	-	13	MP-25042-13L	-
	suit MP-4106 types.	41.6	20.7	255						
		(1.64)	(0.81)	(8.07)	-	-	-	19	MP-25042-19L	-
		45.3	20.7	255						
( amo	· · · ·	(1.78)	(0.81)	(8.07)	-	-	-	25	MP-25042-25L	-
		52.15	20.7	255						
		(2.05)	(0.81)	(8.07)	-	-	-	37	MP-25042-37L	-
0		58.6	20.7	255				E A		_
		(2.30)	(0.81) 20.7	(8.07) 255	-	-	-	54	MP-25042-54L	-
		70.7 (2.78)	(0.81)	(8.07)	_	-	_	85	MP-25042-85L	_
		70.7	20.7	(8.07)	-	-	-	00	WIF-23042-03L	
		(2.78)	(0.81)	(8.07)	-	-	-	150	MP-25042-150L	-
		(=.10)	(0.01)	(0.01)	l		I	100	100L	1



# **Multipin Connectors**

**MP-41 Series** 

PRODUCT - FIGURE	Dimensions in mm (inches)		Di	mensions	in mm (inc	hes)		PINS	PART NUMBER
	DRAWING	A	B	C	D	E	F	FINO	
		34.16	31.5	110	4.7				
	Plug protective dustcap to suit MP- 4102 types.	(1.35)	(1.24)	(4.33)	(0.18)	-	-	13	MP-25043-13S
	4102 types.	37.36	31.5	110	4.7				
		(1.47)	(1.24)	(4.33)	(0.18)	-	-	19	MP-25043-19S
and the second sec	r	40.87	31.5	110	4.7				
11 - 1		(1.61)	(1.24)	(4.33)	(0.18)	-	-	25	MP-25043-25S
1 8		46.68	31.5	110	4.7				
		(1.84)	(1.24)	(4.33)	(0.18)	-	-	37	MP-25043-37S
1 and 1		53.36	31.5	110	5.5				
		(2.10)	(1.24)	(4.33)	(0.22)	-	-	54	MP-25043-54S
		65.48	31.5	110	5.5				
		(2.58)	(1.24)	(4.33)	(0.22)	-	-	85	MP-25043-85S
		65.48	31.5	110	5.5				
		(2.58)	(1.24)	(4.33)	(0.22)	-	-	150	MP-25043-150S
		38.8	20.7	255					
	Receptacle protective dustcap to	(1.53)	(0.81)	(8.07)	-	-	-	13	MP-25043-13L
	suit MP-4101 types.	41.6	20.7	255				10	
		(1.64)	(0.81)	(8.07)	-	-	-	19	MP-25043-19L
	_	45.3	20.7	255				05	
		(1.78) 52.15	(0.81) 20.7	(8.07) 255	-	-	-	25	MP-25043-25L
				(8.07)			_	37	MP-25043-37L
-		(2.05) 58.6	(0.81) 20.7	(0.07)	-	-	-	37	WIP-20043-37L
0		(2.30)	(0.81)	(8.07)	_	-	_	54	MP-25043-54L
		(2.30)	20.7	(8.07)	-	-	-	54	WIF-20040-04L
	↓ ▲ ▲	(2.78)	(0.81)	(8.07)	-	-	-	85	MP-25043-85L
		70.7	20.7	255					
		(2.78)	(0.81)	(8.07)		-	-	150	MP-25043-150L



## **Multipin Connectors**

**MP-41 Series** 

PRODUCT - FIGURE	DRAWING	DESCRIPTION	NO. OF PINS	PART NUMBER
	N/A	Crimp Tool	All	M22520/1-01
	N/A	Positioner / Turret	All	TH29-1
	N/A	Insertion tool	13-85	MP-INS-16
			150	MP-INS-18
	N/A	Extraction tool	All	MP-EXT-16/18
	N/A	Contact Pilot Pin	13-85	MP-GUIDE-16
	N/A		150	MP-GUIDE-18
	NI/A	Solder/Crimp Pin Contact	13-85 (Size 16)	MP-108400
	N/A	Crimp Pin Contact (Soldering of this contact is not recommended)	150 (Size 18)	MP-108300
	N/A	Solder/Crimp Socket Contact	13-85 (Size 16)	MP-108600
	IN/A	Crimp Socket Contact (Soldering of this contact is not recommended)	150 (Size 18)	MP-108500

NOTE: Complete instructions for providing reliable crimped wire to contact terminations and inserting proprietary contacts in MP-41 Series connectors are available in publication Pi523 located on our website www.amphenolaudio.com.

# **PART NUMBER BREAKDOWN MP-41 SERIES** HOUSING TYPE

## MULTIPIN CIRCULAR CONNECTORS

PART NU			REAKDOWN M				p <sup>t</sup>	.6	CONTACTS FEEDER	
E. G . MP-4106-85S Multipin, 4106 Cabl	e Plug, <mark>85</mark> Con	tacts, <mark>S</mark> Fe	male Socket Contacts,		SERIES PREFIX					
SERIES PREFIX	MP	=	Series Prefix	]	IP  -	4106	-	85	S	C
HOUSING TYPE	4101 4102 4106 4164 25042S 25042L 25043S 25043L		Inline cable connecting receptacle Panel receptacle Cable plug Panel plug Dustcap for panel plug Dustcap for cable plug Dustcap for panel receptacle Dustcap for cable receptacle							
NO. OF CONTACTS			13, 19, 25, 37, 54, 85, 150	1						
GENDER *Not required for dustcap part numbers	P S	=	Male pin contacts Female socket contacts	]						
OPTIONS	C	=	Supplied with Dustcap	]						



# **STANDARD DATA MP-41 SERIES**

						VALUE						
GENERAL	Number of contacts		13	19	25	37	54	85	150			
CHARACTERISTICS	Number of channels		4	6	8	12	16	28	48			
	Termination				Solder / Crin	np "Combo"		1	Crimp			
	Wire Gauge - Stranded Wire				16AWG - 2	20AWG			18AWG			
	Environmental			Complies	with EU RoHS	2 Directive 2	011/65/EU		I			
ELECTRICAL	Operating Voltage at Sea level -	DC			250	)V*			250V*			
CHARACTERISTICS	Operating Voltage at Sea level -	AC			200	)V*			200V*			
	Test Voltage AC RMS				100	)0V			1000V			
	Current Carrying Capacity				13	A			7.5A			
	Typical Contact Resistance				3.46	mΩ			11.25mΩ			
	Insulation Resistance				5000	)ΜΩ			I			
CLIMATIC	Protection Class				IP67 (wł	nen mated)						
CHARACTERISTICS	Operating Temperature			-55°	°C to +125°C	(-67°F to +2	57°F)					
MECHANICAL	Cable Retention				PG	Gland						
CHARACTERISTICS	Mechanical Operations				2000 ma	ting cycles						
MATERIALS	Connector / Shell Finish				Aluminium	Alloy / Black						
	Insert			S	ynthetic Inser	t to MIL-R-30	65					
	Male pin contact / Plating		Brass / Gold plated									
	Female socket contact / Plating		Brass / Gold plated									
CLAMPING	PG Gland		11	13.5	16	2	21	29	36			
CHARACTERISTICS	Cable Clamping range	mm	4-10	5-12	9-14	13	-18	14-25	19-32			
		(inches)	(0.15"- 0.39")	(0.19"- 0.47")	(0.35"- 0.55")	(0.51"	- 0.70")	(0.55"- 0.98")	(0.74"- 1.25")			

\*Not suitable for domestic applications above 50V



Rev 2 - 03/2013

# **Multipin Connectors**

MP-62 / MP-65 Series



# MP-62 / MP-65 Series

Amphenol's Multipin MP-62 series of circular connectors utilise the same design principles as 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

#### Specifications: Page 132

#### • Environmental resistant. • Black finish.

- · Positive bayonet locking
- PG cable glands
- Metal housings

## Wiring Info: Page 141

PRODUCT - FIGURE	Dimensions in mm (inches)	Dimensio	ns in mm (ir	nches)	DING	PART NUMBER	PART NUMBER
	DRAWING	A	В	PG	r 1113		With Dustcap
	Straight cable plug with pin contacts, Black finish, Gold plated solder contacts.	38.9	181.5	16	39		
	P	(1.53)	(7.15)			MP-6216-39P	MP-6216-39P-C
		45.5	193	21	61		
		(1.80)	(7.60)			MP-6216-61P	MP-6216-61P-C
(Theorem 1)	Cable connecting receptacle with socket contacts, Black finish, Gold plated solder contacts.	36.7	181.5	16	39		
COLUMN STORES	B	(1.45)	(7.15)			MP-6211-39S	MP-6211-39S-C
		43.0	193	21	61		
	⊂₽G		(7.60)			MP-6211-61S	MP-6211-61S-C
	Straight cable plug with pin contacts, NPT 3/4" threaded backshell, Black finish, Gold plated solder contacts.	38.9	90	NPT	39		
		(1.53)	(3.54)	3/4"		MP-6516-39P	MP-6516-39P-C
		45.5	100	NPT	61		
		(1.80)	(3.94)	3/4"		MP-6516-61P	MP-6516-61P-C
	Cable connecting receptacle with socket contacts, NPT 3/4" threaded backshell, Black finish,	36.7	90	NPT	39		
	Gold plated solder contacts.	(1.45)	(3.54)	3/4"		MP-6511-39S	MP-6511-39S-C
			100	NPT	61		
		(1.70)	(3.94)	3/4"		MP-6511-61S	MP-6511-61S-C



# **Multipin Connectors**

MP-62 / MP-65 Series

PRODUCT - FIGURE	Dimensions in mm (inches)		Dime	nsions i	n mm (i	nches)		PINS	PART	PART NUMBER
	DRAWING		В	C	D	E	F	1 1110	NUMBER	With Dustcap
~	Panel plug with pin contacts, Black fin- ish, Gold plated solder contacts.	38.86	29.36	6-32	39.0	32	-			
		(1.53)	(1.16)	UNC	(1.54)	(1.26)	-	39	MP-6256-39P	MP-6256-39P-C
		43.94	34.93	6-32	45.5	35	-			
		(1.73)	(1.38)	UNC	(1.80)	(1.38)	-	61	MP-6256-61P	MP-6256-61P-C
·	Panel receptacle plug with socket contacts, Black finish, Gold plated solder contacts.	36.7	29.36	3.05	31.8	22.3	30.1			
		(1.44)	(1.15)	(0.12)	(1.25)	(0.87)	(1.18)	39	MP-6212-39S	MP-6212-39S-C
		43.0	34.93	3.74	38.1	22.3	36.4			
4234		(1.69)	(1.38)	(0.15)	(1.50)	(0.87)	(1.43)	61	MP-6212-61S	MP-6212-61S-C

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	D	imensions	in mm (inc	ches)	PINS	PART NUMBER
	DITAVITING DIMENSIONS IN MM (INCHES)		A	В	C		rino	
		Plug protective dustcap to suit MP-6256	31.7	15.9	127	4.40	39	MP-742-39S
Contraction of the second			(1.25)	(0.62)	(4.99)	(0.17)		
			38.05	16.70	127	4.40	61	MP-742-61S
		<b>▲</b>	(1.50)	(0.66)	(4.99)	(0.17)		
		Receptacle protective dustcap to suit MP-6216	36.9	13.13	127	-	39	MP-742-39L
			(1.45)	(0.52)	(4.99)		00	WI -7-72-03L
			43.14	14.15	127	-	61	MP-742-61L
			(1.70)	(0.56)	(4.99)			
8_25		Plug protective dustcap to suit MP-6212	31.7	15.9	127	4.40	39	MP-738-39S
844 M	cc		(1.25)	(0.62)	(4.99)	(0.17)	39	INIE-120-282
	∲©_╘ा───┤┾─		38.05	16.70	127	4.40		
		ØA	(1.50)	(0.66)	(4.99)	(0.17)	61	MP-738-61S
		Receptacle protective dustcap to suit MP-6211	36.9	13.13	127	-	20	MD 700 001
Set .	¢¢		(1.45)	(0.52)	(4.99)		39	MP-738-39L
0			43.14	14.15	127	-	61	MP-738-61L
		<i>ØA</i>	(1.70)	(0.56)	(4.99)			WIF -7 50-01 L



# **STANDARD DATA MP-62 SERIES / MP - 65 SERIES**

		VALUE			
GENERAL	Number of contacts	39	61		
CHARACTERISTICS	Number of channels	12	20		
	Termination	Solder			
	Wire Gauge - Stranded Wire	37 x 24AWG-20AWG	24AWG-20AWG		
		2 x 20AWG-16AWG			
	Environmental	Complies with EU RoHS 2 [	Directive 2011/65/EU		
ELECTRICAL	Operating Voltage at Sea level - DC	600V*			
CHARACTERISTICS	Operating Voltage at Sea level - AC	600V*			
	Test Voltage AC RMS	1500V			
	Current Carrying Capacity	37 x 7.5A	7.5A		
		2 x 13A			
	Insulation Resistance	5000Mg	2		
CLIMATIC	Protection Class	IP67 (when mated)			
CHARACTERISTICS	Operating Temperature	-55°C to +125°C (-67°F to +257°F)			
MECHANICAL	Cable Retention	PG Gland /	NPT Thread		
CHARACTERISTICS	Mechanical Operations	500 mating cycles	(minimum)		
MATERIALS	Connector / Shell Finish	Aluminium Alloy	y / Black		
	Insert	Neopren	е		
	Male pin contact machined - Plating	Brass / Gold	plated		
	Female socket contact machined - Plating	Brass / Gold	plated		
CLAMPING	PG Gland	16	21		
CHARACTERISTICS	Cable Clamping range mm (inches)	9-14 (0.35"-0.55")	13-18 (0.51"-0.70")		

\*Not suitable for domestic applications above 50V



## AMPHENOL-TUCHEL C146 HEAVY | MATE CONNECTORS

Amphenol Tuchel C146 series rectangular connectors feature modular components ensuring a vast range of different features and benefits for the end user. The zinc diecast aluminum housings are finished in a durable powder coat and available in either top or side entry. Connector coupling is achieved via a positive locking lever ensuring a positive rapid connection. The C146 series is suitable for general-purpose audio and lighting applications and is completely intermateable with all competitor connectors.



## **FIBRE OPTIC**

Amphenol has over 25 years experience in fibre optics dating back to their development of the first industry standard connector, the SMA. Today we can offer a complete range of products including Hybrid Fibre optic connectors for HDTV broadcast cameras SMPTE 304M compliant and ruggedised connectors and cable assemblies for indoor or outdoor applications.





# **Accessories**

- 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.
- Mounting hardware.
- Metal boots(backshells) for rugged environments.

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	60.4 [2.378"]	XLR 3 pole male to 3 pole male adapter, Pre wired, Metal Shell	Nickel Finish	AC3M3MW
	AMPHENOL         Ø19.0 [Ø.748"]		Black Finish	AC3M3MBW
-	AMPHENOL (19.0 [0.748"]	XLR 3 pole female to 3 pole female adapter, Pre wired, Metal Shell	Nickel Finish	AC3F3FW
	60.4 [2.378"]		Black Finish	AC3F3FBW
	(19.0 (0.748")	XLR 3 pole female to 3 pole male adapter, Pre wired, Metal Shell	Nickel Finish	AC3F3MW
	60.4 [2.378"]	וופ שוופט, ושפומו טוופון	Black Finish	AC3F3MBW
		XLR 3 pole female to 5 pole male adapter, Pre wired, Metal Shell	Nickel Finish	AC3F5MW
	62.5 [2.461"]			
		XLR 3 pole male to 5 pole female adapter, Pre wired, Metal Shell	Nickel Finish	AC3M5FW
	62.5 [2.461"] 			
		XLR 5 pole male to 5 pole male adapter, Pre wired, Metal Shell	Nickel Finish	AC5M5MW
	76 [2.991"]			
		XLR D shell adapter, 3 pole male to 3 pole male, Pre-wired	Not Applicable	AC3M3MDW
- 10				
		XLR D shell adapter, 3 pole female to 3 pole female, Pre-wired	Not Applicable	AC3F3FDW
-0				



PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	29 <b>Rest</b>		XLR D shell adapter, 5 pole male to 5 pole male, Pre-wired	Not Applicable	AC5M5MDW
			XLR D shell adapter, 5 pole female to 5 pole female, Pre-wired	Not Applicable	AC5F5FDW
			SP D shell adapter, SP-2 to SP-2, Pre- wired	Not Applicable	SP2F2FDW
			SP D shell adapter, SP-4 to SP-4, Pre- wired	Not Applicable	SP4F4FDW
	29 7		D shell adapter without connectors	Not Applicable	AC-D-ADAPTER
			Termination Tool	For AC Series Cable Connectors	T2860
			Termination Tool	For AX Series cable connectors	T2890
~	¢5.6 [.220]	2.0 1.0771 2.0 1.3071	A Type / C Type Connector Mounting, Self-Tapping Screw	2.9 x 1.06 Tri-rondular	52500014-734
~	Ø4.50	M2.5 x 0.45	B Type / XLRnet Connector Mounting, Self-Tapping Screw	M2.5	52500005-732



PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			AX Series	Brown	AX-BOOT-1
			Coloured Boot	Red	AX-B00T-2
	<del> </del>			Orange	AX-BOOT-3
				Yellow	AX-BOOT-4
	51.6			Green	AX-BOOT-5
	[E8] Z1Z Ø			Blue	AX-BOOT-6
				Violet	AX-B00T-7
				Grey	AX-BOOT-8
				White	AX-BOOT-9
				Black	AX-BOOT
			AX Series Sleeve for	Black	AX-MARK0
	A N		Custom Print	Brown	AX-MARK1
			Note: Custom printed	Red	AX-MARK2
El h			numbers available (Please contact us)	Orange	AX-MARK3
SCo.	-28.8-			Yellow	AX-MARK4
				Green	AX-MARK5
				Blue	AX-MARK6
				Violet	AX-MARK7
	-20	9.9 <b></b> -		Grey	AX-MARK8
				White	AX-MARK9
			AC Coloured	Brown	AC-NUT-BRN
			Boot / Backshell	Red	AC-NUT-RED
		_49.5 [1.949"] <b></b>	Note: Number Identification optional.	Orange	AC-NUT-ORG
🖉 🥌 🔹		(Please contact us.)	Yellow	AC-NUT-YEL	
	ø20.2 [ø.795"]			Green	AC-NUT-GRN
	\$2( \$\vee{2}\$)			Blue	AC-NUT-BLU
				Violet	AC-NUT-VIO
				Grey	AC-NUT-GRY
				White	AC-NUT-WHT
			Coloured Grommets to	Brown	AC-GROMMET-BRN
-	ø10.30 [ø.406"]	15.0	suit AC Series, T Series and Musician range	Red	AC-GROMMET-RED
	0.4	<b>[</b> .591"]	and Musician range	Orange	AC-GROMMET-ORG
				Yellow	AC-GROMMET-YEL
				Green	AC-GROMMET-GRN
	l f			Blue	AC-GROMMET-GRN
	<u> </u>			Violet	AC-GROMMET-VIO
				Grey	AC-GROMMET-GRY
				White	AC-GROMMET-WHT

NOTE: All accessories comply with EU RoHS 2 Directive 2011/65/EU NOTE: Please do not refer to this printed catalogue as a colour reference. For exact colours contact your sales representative.

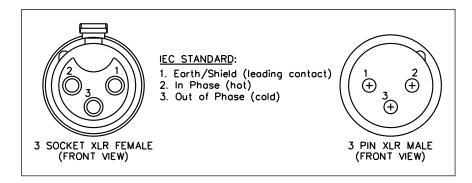


PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	£.61ø	5 [1.949"]	AC Metal Boot / Backshell, Black Finish	Not Applicable	AC-NUT-METAL
	49. 2.02¢	5 [1.949"]	AC Thermoplastic Boot / Backshell. Suitable for use with 8.5mm (0.33") O.D. cable.	Not Applicable	AC-NUT-J-BLK
A P	M3-17.2 [.677"]+-		M3 threaded metal plate to suit D-type chassis connectors	Nickel Finish	52590060-300
			M3 x 0.5mm thread Dual rear panel clip	Nickel Finish	52590074-300
-			M3 Screw to suit 52590060-300 M3 x 0.5	Nickel Finish Matt Black	52500016-300 52500016-400
		-,0			



# **Connector Wiring Information**

#### XLR (Microphone / Patch Cables)

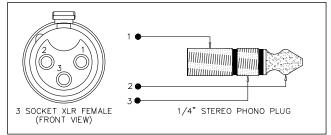


The standard XLR 3 contact pin outs are as shown above for a balanced lead. In such a configuration audio "Hot" (pin 2) is the in-phase connection whilst audio "Cold" (pin 3) is the out-of-phase connection. For an unbalanced lead however, you may connect pin 1 to either pin 2 or pin 3, but not both.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

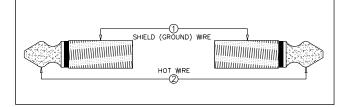
When terminating the cable shielding to pin 1 it is suggested that the shield be only grounded at one end of the cable to avoid inducing "hum". Pin 1 is a leading contact that engages at interconnection, before pin 2 or pin 3.

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

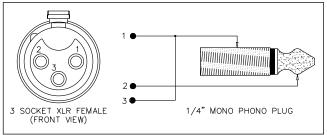
## **MICROPHONE CABLE - BALANCED**



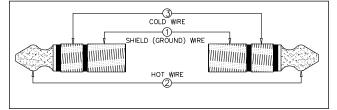
### **INSTRUMENT / LINE CABLE (MONO)**



## **MICROPHONE CABLE - UNBALANCED**



### **INSTRUMENT / LINE CABLE (STEREO)**





# **Connector Wiring Information**

## **MP Series**



٨	/IP-41				
I	6 Ch -		19		
	Ch	+	-	G	
	1	L	М	U	
	2	А	N	В	
	3	к	J	Т	
	4	v	Р	C	
	5	н	S	G	
	6	R	D	Е	
	General				
	Ground	F			
		_			



## MP-62 Series

12 Ch-39 pin					
Ch	+	-	G		
1	р	n	q		
2	w	А	х		
3	N	f	Р		
4	L	е	М		
5	J	d	К		
6	G	с	н		
7	E	b	F		
8	D	a	Ζ		
9	С	В	Y		
10	U	j	۷		
11	i	h	Т		
12	R	g	S		
General					
Ground	N/A				
0/		~	<u>እ</u>		

MP-62 Series						
	20 CI	1—(	61	pin		
	Ch	+	-	G		
	1	JJ	HH	NN		
	2	ММ	KK	PP		
	3	BB	AA	CC		
	4	s	FF	W		
	5	r	EE	۷		
	6	е	D	x		
	7	f	E	у		
	8	q	DD	U		
	9	S	р	Т		
	10	Ρ	Ν	R		
	11	m	k	n		
	12	L	K	М		
	13	J	i	j		
	14	Н	G	h		
	15	g	F	z		
	16	d	С	W		
	17	В	А	C		
	18	b	a	Ζ		
	19	۷	u	Y		
	20	t	GG	Х		
	General					

Ground N/A



Μ	MP-41 Series				Ν	1P-41	S	eri	es
	8 Ch	-2	5	pin		12 Cł	1—(	37	pin
	Ch	+	-	G		Ch	+	-	G
	1	A	E	F		1	Е	F	А
	2	G	С	В		2	В	С	G
	3	D	н	J		3	Н	J	D
	4	М	L	к	1	4	s	Т	к
	5	Q	Ρ	Ν		5	L	М	U
	6	W	S	R		6	٧	w	N
	7	Т	х	Y		7	Р	R	х
	8	Z	٧	U		8	a	b	g
	General					9	С	d	j
	Ground		a			10	е	f	m
					J	11	n	р	h
	°/		1)	$\hat{\mathbf{O}}$		12	r	s	k
			$\sim$	)		General			
			Ŋ			Ground		z	

0000
000000

16 Ch–54 pin						
Ch	+	-	G			
1	w	f	r			
2	J	R	a			
3	k	v	AC			
4	Е	М	V			
5	е	q	у			
6	В	Н	Р			
7	z	j	u			
8	D	L	U			
9	d	р	х			
10	Α	G	0			
11	Y	h	t			
12	С	К	Т			
13	с	n	w			
14	F	Ν	Х			
15	g	s	AB			
16	s	b	m			
General						
Ground	AG					

MP-41 Series

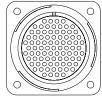
20 0	1.1	50	hii		
Ch	+	-	G		
1	Α	В	С		
2	Е	F	н		
3	J	К	L		
4	Ν	Ρ	R		
5	S	Т	U		
6	х	Y	z		
7	a	b	с		
8	d	f	g		
9	h	i	j		
10	k	m	n		
11	р	q	r		
12	t	u	v		
13	w	х	у		
14	z	AA	AB		
15	AC	AD	AE		
16	AF	AH	AJ		
17	AK	AL	AM		
18	AP	AR	AS		
19	AT	AU	AV		
20	AW	AX	AY		
21	AZ	BA	BB		
22	BC	BD	BE		
23	BJ	BK	BL		
24	BM	BN	BP		
25	BS	ΒT	BU		
26	BV	BR	BF		
27	BH	AN	s		
28	W	М	D		
General					
Ground V					

С

С

MP-41 Series

28 Ch-85 pin



MP-41			
48 Cł	1 - 1	150	pin
Ch	+	-	G
1	1	2	3
2	5	6	7
3	8	9	10
4	11	12	13
5	14	15	16
6	17	18	19
7	21	22	23
8	24	25	26
9	27	28	29
10	20	30	31
11	32	33	34
12	35	36	37
13	38	39	40
13	41	42	43
15	44	45	46
16	47	48	49
17	50	51	52
18	53	54	55
19	57	58	59
20	60	61	62
21	63	64	65
22	66	67	68
23	69	70	71
24	72	73	74
25	75	76	77
26	78	79	80
27	82	83	84
28	85	86	87
29	88	89	90
30	91	92	93
31	94	95	96
32	97	98	99
33	100	101	102
34	103	104	105
35	56	81	106
36	107	108	109
37	110	111	112
38	113	114	115
39	116	117	118
40	119	120	121
41	122	123	124
42	125	126	127
43	139	128	129
44	130	131	132
45	133	134	135
45	135	134 137	135
40		137	
	140		142
48 Conoral	143	144	145
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Ground		150	

MP-41 Series



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52500005-732	134	AC3MCP	14	AC5MP	24	ACJC9AH BULK	43	ACJR-SWH	121
52500016-300	134	AC3MCP BULK	14	AC5MPNZ	24	ACJC9AHL BULK	43	ACJR-SYL	121
52500016-400	136	AC3MDZ	21	AC6AF	12	ACJC9AV2 BULK	44	ACJR-WHT	121
52590060-300	136	AC3MDZB	21	AC6AFB	12	ACJC9AV2L BULK	44	ACJR-YEL	121
52590074-300	136	AC3MDZB-AU	21	AC6AFB-AU	12	ACJC9AVL BULK	44	ACJS-HHDR	108
		AC3MDZ BULK	21	AC6AFB BULK	12	ACJC9H BULK	46	ACJS-HHOP	109
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AC3F3MBW	133	AC3MMCP	14	AC6AFJ	12	ACJC10AHL BULK	44	ACJS-MHD985	108
AC3F5MW	133	AC3MMCP BULK	14	AC6AFPZ	24	ACJC10AV2 BULK	44	ACJS-MHDC*	110
AC3FAH1-AU-PRE	30	AC3MMDZ	21	AC6AM	12	ACJC10AV2L BULK	44	ACJS-MHDCM	110
AC3FAH2-AU-PRE	30	AC3MMDZB	21	AC6AMB	12	ACJC10AV BULK	44	ACJS-MHDE	111
AC3FAH-AU-PRE	30	AC3MMDZB-AU	21	AC6AMB-AU	12	ACJC10AVL BULK	44	ACJS-MHDEM	111
AC3FAHL1-AU-PRE	30	AC3MMDZ BULK	21	AC6AMB BULK	12	ACJC10H BULK	47	ACJS-MHDM	111
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AC3FAV-AU-PRE	30	AC4F	11	AC6AMDZB-AU	23	ACJC10VL BULK	47	ACJS-MHOP-1	109
AC3FAVL1-AU-PRE	31	AC4FB	11	AC6AMDZ BULK	23	ACJD-BLK	122	ACJS-MHR	110
AC3FAVL2-AU-PRE	31	AC4FB-AU	11	AC6AMJ	12	ACJD-BLU	122	ACJS-MHS	110
AC3FAVL-AU-PRE	31	AC4FB BULK	11	AC6AMP	24	ACJD-GRN	122	ACJS-MIV-3	111
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AC3FB-AU	10	AC4F BULK	11	AC7F	12	ACJD-WHT	122	ACJS-MIV-5	111
AC3FB BULK	10	AC4FDZ	22	AC7FB	12	ACJD-YEL	122	ACJS-MN-3	111
AC3FBH1-AU-PRE	33	AC4FDZB	22	AC7FB BULK	12	ACJM-HHDR	108	ACJS-MN-3S	111
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AC3FBHL1-AU-PRE	34	AC4FPZ	24	AC7FDZB	23	ACJM-IHS	110	ACJS-MV-5	111
AC3FBHL2-AU-PRE	34	AC4M	11	AC7FDZ BULK	23	ACJM-MC	110	ACJS-MV35-3	108
AC3FBHL3-AU-PRE	34	AC4MAH-AU-B	31	AC7FDZV	23	ACJM - MH	109	ACJS-MV35-3S	108
AC3FBHL-AU-PRE	33	AC4MB	11	AC7FDZVB	23	ACJM-MHD	111	ACJS-MV35-5	108
AC3FBJ	10	AC4MB-AU	11	AC7FJ	12	ACJM-MHD985	108	ACJS-MVD985-3	108
AC3F BULK	10	AC4MB BULK	11	AC7FPZ	24	ACJM-MHDC*	110	ACJS-MVD985-3S	108
AC3FBV1-AU-PRE	34	AC4MBJ	11	AC7M	12	ACJM-MHDCM	110	ACJS-MVD985-5	108
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AC3MB	10	AC5MAH-AU-B	31	ACJC5V BULK	45	ACJM-PHOP	109	ACPL-CBK	121
AC3MB-AU	10	AC5MAV-AU-B	31	ACJC5VL BULK	45	ACJM-PHOP-1	109	ACPL-CBL	121
AC3MB BULK	10	AC5MB	11	ACJC6AH BULK	43	ACJM-PHR	110	ACPL-CGR	121
AC3MBH1-AU-PRE	32	AC5MB-AU	11	ACJC6AHL BULK	43	ACJM-PHS	110	ACPL-CRD	121
AC3MBH2-AU-PRE	32	AC5MB BULK	11	ACJC6AV2 BULK	43	ACJM-PVB-2	111	ACPL-CWH	121
AC3MBH3-AU-PRE AC3MBH-AU-PRE	32 32	AC5MBH-AU-PRE	35	ACJC6AV2L BULK	43	ACJM-PVB-2S	111	ACPL-CYL ACPM-GB	121 104
AC3MBHL-AU-PRE	32 32	AC5MBJ	11 11	ACJC6AV BULK ACJC6AVL BULK	43 43	ACJR-BLK ACJR-BLU	121 121	ACPM-GB ACPM-GB-AU	104 104
AC3MBJ	10	AC5M BULK AC5MBV-AU-PRE	35	ACJC6AVL BULK	43 46	ACJR-GRN	121	ACPM-GB-AU	104
AC3M BULK	10	AC5MDZ	22	ACJC6HL BULK	46	ACJR-RED	121	ACPM-GN	104
AC3MBV1-AU-PRE	33	AC5MDZB	22	ACJC6S BULK	46	ACJR-SBK	121	ACPM-GN-AU	104

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			51			EP-6-13P	66		
ACPM-KB-AU	102	AG6M		AX5FD-M3	19	EP-6-13PB	66	MP-4101-25P	125
ACPM-KN	102	AG6MCC	51	AX5FDV	19			MP-4101-25P-C	125
ACPM-KN-AU	102	AG6MCCH	51	AX5FDV-M3	19	EP-6-14	66	MP-4101-37P	125
						EP-6-14B	66		
ACPM-RB	105	AP-4-11	67	AX5M	4	EP-8-11P	65	MP-4101-37P-C	125
ACPM-RB-AU	105	AP-4-12	67	AX5MB	4			MP-4101-54P	125
		AP-4-13	67			EP-8-11PB	65		
ACPM-RB BULK	105			AX5MB-AU	4	EP-8-12	65	MP-4101-54P-C	125
ACPM-RN	105	AP-4-14	67	AX5MB BULK	4		65	MP-4101-85P	125
ACPM-RN-AU	105	AP-4-21	67	AX5M BULK	4	EP-8-12B		MP-4101-85P-C	125
						EP-8-13P	66		
ACPM-RN BULK	105	AP-4-22	67	AX5MD	18	EP-8-13PB	66	MP-4101-150P	125
ACPM-TB	103	AP-5-11	67	AX5MDB	18			MP-4101-150P-C	125
ACPM-TB-AU	103	AP-5-12	67			EP-8-14	66	MP-4102-13P	126
				AX5MDB-AU	18	EP-8-14B	66		
ACPM-TB BULK	103	AP-5-13	67	AX5MD-M3	18			MP-4102-13P-C	126
ACPM-TN	103	AP-5-14	67	AX5MDV	18			MP-4102-19P	126
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ACPM-TN-AU	103	AP-5-21	67	AX5MDVB	18			MP-4102-19P-C	126
ACPM-TN BULK	103	AP-5-22	67	AX5MDV-M3	18	HP-3-F	70	MP-4102-25P	126
ACPR-BLK	121	AP-6-11	67	AX6AFD	19			MP-4102-25P-C	126
						HP-3-FG	70		
ACPR-BLU	121	AP-6-12	67	AX6AFDB	19	HP-3-MD	70	MP-4102-37P	126
ACPR-GRN	121	AP-6-13	67	AX6AFD-M3	19	HP-3-MDG	70	MP-4102-37P-C	126
ACPR-RED	121	AP-6-14	67					MP-4102-54P	126
				AX6AFDV	19	HP-3-MDGW	70		
ACPR-SBK	121	AP-6-21	67	AX6AFDVB	19	HP-3-MDW	70	MP-4102-54P-C	126
ACPR-SBL	121	AP-6-22	67	AX6AFDV-M3	19		72	MP-4102-85P	126
						HPT-3-CC			
ACPR-SGR	121	AP-8-11	67	AX6AMD	19	HPT-3-F	72	MP-4102-85P-C	126
ACPR-SRD	121	AP-8-12	67	AX6AMDB	19	HPT-3-FD	72	MP-4102-150P	126
ACPR-SWH	121	AP-8-13	67	AX6AMDB-AU	19			MP-4102-150P-C	126
						HPT-3-FDW	72		
ACPR-SYL	121	AP-8-14	67	AX6AMD-M3	19	HPT-3-FJ	72	MP-4106-13S	125
ACPR-WHT	121	AP-8-21	67	AX6AMDV	19	HPT-3-M	72	MP-4106-13S-C	125
ACPR-YEL	121	AP-8-22	67	AX6AMDVB	19	HPT-3-MD	72	MP-4106-19S	125
ACPS-GB	104	AX3F	3	AX6AMDV-M3	19	HPT-3-MDW	72	MP-4106-19S-C	125
ACPS-GB-AU	104	AX3FB	3	AX6FADB-AU	19			MP-4106-25S	125
						HPT-3-MJ	72		
ACPS-GB BULK	104	AX3FB-AU	3	AX-BOOT	135	HPT-CAPD	73	MP-4106-25S-C	125
ACPS-GN	104	AX3FB BULK	3	AX-BOOT-1	135	HPT-CAPF	73	MP-4106-37S	125
ACPS-GN-AU	104	AX3F BULK	3					MP-4106-37S-C	125
				AX-BOOT-2	135	HPT-CAPM	73		
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ACPS-KB	102	AX3FDB	17	AX-BOOT-4	135	HPT-CAPSF	73	MP-4106-54S-C	125
ACPS-KB-AU	102	AX3FDB-AU	17	AX-BOOT-5	135			MP-4106-85S	125
						HPT-CAPSM	73		
ACPS-KN	102	AX3FDB-M3	17	AX-BOOT-6	135	HPT-RT	73	MP-4106-85S-C	125
ACPS-KN-AU	102	AX3FD-M3	17	AX-BOOT-7	135			MP-4106-150S	125
ACPS-RB	105	AX3M	3	AX-BOOT-8	135	J		MP-4106-150S-C	125
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				AX-BOOT-9	135				
ACPS-RB BULK	105	AX3MB-AU	3	AX-MARK0	135	JM2P	96	MP-4164-13S-C	126
ACPS-RN	105	AX3MB BULK	3	AX-MARK1	135	JM2P-AU	96	MP-4164-19S	126
ACPS-RN-AU	105	AX3M BULK	3	AX-MARK2	135	JM2PB	96	MP-4164-19S-C	126
ACPS-RN BULK	105	AX3MD	17	AX-MARK3	135	JM2PB-AU	96	MP-4164-25S	126
ACPS-TB	103	AX3MDB	17	AX-MARK4	135	JM2P BULK	96	MP-4164-25S-C	126
ACPS-TB-AU	103	AX3MDB-AU	17	AX-MARK5	135	JS3P	96	MP-4164-37S	126
ACPS-TB BULK	103	AX3MDB-M3	17	AX-MARK6	135	JS3P-AU	96	MP-4164-37S-C	126
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ACPS-TN-AU	103	AX3MDV	17	AX-MARK8	135	JS3PB-AU	96	MP-4164-54S-C	126
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AG3F	90 51	AX3MDVB-M3 AX3MDV-M3 AX4F	17 17 4	E		K KM2P	118	MP-4164-85S-C MP-4164-150S MP-4164-150S-C	126 126 126
	90	AX3MDVB-M3 AX3MDV-M3	17 17		135 65	K KM2P KM2P-AU	118 118	MP-4164-85S-C MP-4164-150S	126 126
AG3F AG3FCCH	90 51 51	AX3MDVB-M3 AX3MDV-M3 AX4F AX4FB	17 17 4 4	E EP-3-11P	65	K KM2P		MP-4164-85S-C MP-4164-150S MP-4164-150S-C MP-6211-39S	126 126 126 130
AG3F AG3FCCH AG3FCE	90 51 51 51	AX3MDVB-M3 AX3MDV-M3 AX4F AX4FB AX4FB-AU	17 17 4 4 4	E EP-3-11P EP-3-11PB	65 65	K KM2P KM2P-AU KM2PB	118 118	MP-4164-85S-C MP-4164-150S MP-4164-150S-C MP-6211-39S MP-6211-39S-C	126 126 126 130 130
AG3F AG3FCCH AG3FCE AG3FCRV	90 51 51 51 52	AX3MDVB-M3 AX3MDV-M3 AX4F AX4FB AX4FB-AU AX4FB-AU AX4FB BULK	17 17 4 4 4 4	E EP-3-11P EP-3-11PB EP-3-12	65 65 65	K KM2P KM2P-AU KM2PB KM2PB-AU	118 118 118	MP-4164-85S-C MP-4164-150S MP-4164-150S-C MP-6211-39S MP-6211-39S-C MP-6211-61S	126 126 126 130 130 130
AG3F AG3FCCH AG3FCE	90 51 51 51	AX3MDVB-M3 AX3MDV-M3 AX4F AX4FB AX4FB-AU	17 17 4 4 4	E EP-3-11P EP-3-11PB	65 65	K KM2P KM2P-AU KM2PB	118 118 118 118 118	MP-4164-85S-C MP-4164-150S MP-4164-150S-C MP-6211-39S MP-6211-39S-C	126 126 126 130 130
AG3F AG3FCCH AG3FCE AG3FCRV AG3FL	90 51 51 51 52 51	AX3MDVB-M3 AX3MDV-M3 AX4F AX4FB AX4FB-AU AX4FB-AU AX4FB BULK AX4F BULK	17 17 4 4 4 4 4 4	E EP-3-11P EP-3-11PB EP-3-12 EP-3-12B	65 65 65 65	K KM2P KM2P-AU KM2PB KM2PB-AU KM2PB BULK	118 118 118 118 118	MP-4164-85S-C MP-4164-150S MP-4164-150S-C MP-6211-39S MP-6211-39S-C MP-6211-61S MP-6211-61S-C	126 126 126 130 130 130 130
AG3F AG3FCCH AG3FCE AG3FCRV AG3FL AG3M	90 51 51 51 52 51 51	AX3MDVB-M3 AX3MDV-M3 AX4F AX4FB AX4FB-AU AX4FB-AU AX4FB BULK AX4F BULK AX4F BULK	17 17 4 4 4 4 4 4 18	E EP-3-11P EP-3-11PB EP-3-12 EP-3-12B EP-3-13P	65 65 65 65 66	K KM2P-AU KM2P-AU KM2PB-AU KM2PB-AU KM2PB BULK KM2P BULK	118 118 118 118 118 118	MP-4164-85S-C MP-4164-150S MP-4164-150S-C MP-6211-39S MP-6211-39S-C MP-6211-61S MP-6211-61S-C MP-6212-39S	126 126 130 130 130 130 130 131
AG3F AG3FCCH AG3FCE AG3FCRV AG3FL AG3M AG3MCC	90 51 51 51 52 51 51 51	AX3MDVB-M3 AX3MDV-M3 AX4F AX4FB AX4FB-AU AX4FB-AU AX4FB BULK AX4F BULK AX4FD AX4FD	17 17 4 4 4 4 4 18 18, 19	E EP-3-11P EP-3-11PB EP-3-12 EP-3-12B EP-3-13P EP-3-13PB	65 65 65 65 66 66	K KM2P-AU KM2PB KM2PB-AU KM2PB-AU KM2PB BULK KM2P BULK KS3P	118 118 118 118 118 118 118	MP-4164-85S-C MP-4164-150S MP-4164-150S-C MP-6211-39S MP-6211-39S-C MP-6211-61S MP-6211-61S-C MP-6212-39S MP-6212-39S-C	126 126 130 130 130 130 130 131 131
AG3F AG3FCCH AG3FCE AG3FCRV AG3FL AG3M AG3MCC	90 51 51 51 52 51 51 51	AX3MDVB-M3 AX3MDV-M3 AX4F AX4FB AX4FB-AU AX4FB-AU AX4FB BULK AX4F BULK AX4FD AX4FD	17 17 4 4 4 4 4 18 18, 19	E EP-3-11P EP-3-11PB EP-3-12 EP-3-12B EP-3-13P	65 65 65 65 66	K KM2P-AU KM2P-AU KM2PB-AU KM2PB-AU KM2PB BULK KM2P BULK	118 118 118 118 118 118	MP-4164-85S-C MP-4164-150S MP-4164-150S-C MP-6211-39S MP-6211-39S-C MP-6211-61S MP-6211-61S-C MP-6212-39S MP-6212-39S-C	126 126 130 130 130 130 130 131 131
AG3F AG3FCCH AG3FCE AG3FCRV AG3FL AG3M AG3MCC AG3MCCH	90 51 51 52 51 51 51 51	AX3MDVB-M3 AX3MDV-M3 AX4F AX4FB AX4FB-AU AX4FB-AU AX4FB BULK AX4F BULK AX4FD AX4FDB AX4FDB-AU	17 17 4 4 4 4 18 18, 19 18, 19	E EP-3-11P EP-3-11PB EP-3-12 EP-3-12B EP-3-13P EP-3-13PB EP-3-14	65 65 65 65 66 66 66	K KM2P-AU KM2PB KM2PB-AU KM2PB BULK KM2P BULK KS3P KS3P-AU	118 118 118 118 118 118 118 118	MP-4164-85S-C MP-4164-150S MP-4164-150S-C MP-6211-39S MP-6211-61S MP-6211-61S MP-6211-61S-C MP-6212-39S MP-6212-39S-C MP-6212-61S	126 126 130 130 130 130 131 131 131
AG3F AG3FCCH AG3FCE AG3FCRV AG3FL AG3M AG3MCC AG3MCCH AG3MCCH AG4F	90 51 51 52 51 51 51 51 51 51	AX3MDVB-M3 AX3MDV-M3 AX4F AX4FB AX4FB-AU AX4FB-AU AX4FB BULK AX4F BULK AX4FD AX4FDB AX4FDB AX4FDB-AU AX4FD-M3	17 17 4 4 4 4 18 18, 19 18, 19 18, 19 18	E EP-3-11P EP-3-12 EP-3-12 EP-3-12B EP-3-13P EP-3-13PB EP-3-14 EP-3-14B	65 65 65 66 66 66 66	K KM2P-AU KM2PB-AU KM2PB-AU KM2PB BULK KM2P BULK KS3P KS3P-AU KS3PB	118 118 118 118 118 118 118 118 118	MP-4164-85S-C MP-4164-150S MP-4164-150S-C MP-6211-39S MP-6211-61S MP-6211-61S-C MP-6212-39S MP-6212-39S MP-6212-39S-C MP-6212-61S MP-6212-61S-C	126 126 130 130 130 130 131 131 131 131
AG3F AG3FCCH AG3FCE AG3FCRV AG3FL AG3M AG3MCC AG3MCCH	90 51 51 52 51 51 51 51	AX3MDVB-M3 AX3MDV-M3 AX4F AX4FB AX4FB-AU AX4FB-AU AX4FB BULK AX4F BULK AX4FD AX4FDB AX4FDB-AU	17 17 4 4 4 4 18 18, 19 18, 19	E EP-3-11P EP-3-11PB EP-3-12 EP-3-12B EP-3-13P EP-3-13PB EP-3-14	65 65 65 65 66 66 66	K KM2P KM2P-AU KM2PB KM2PB-AU KM2PB BULK KM2P BULK KS3P KS3P-AU KS3PB KS3PB	118 118 118 118 118 118 118 118 118 118	MP-4164-85S-C MP-4164-150S MP-4164-150S-C MP-6211-39S MP-6211-61S MP-6211-61S MP-6211-61S-C MP-6212-39S MP-6212-39S-C MP-6212-61S	126 126 130 130 130 130 131 131 131
AG3F AG3FCCH AG3FCE AG3FCRV AG3FL AG3M AG3MCC AG3MCCH AG3MCCH AG4F AG4FCCH	90 51 51 52 51 51 51 51 51 51 51	AX3MDVB-M3 AX3MDV-M3 AX4F AX4FB AX4FB-AU AX4FB-AU AX4FB BULK AX4F BULK AX4FDB AX4FDB AX4FDB AX4FDB-AU AX4FD-M3 AX4FDV	17 17 4 4 4 4 18 18, 19 18, 19 18 18	E EP-3-11P EP-3-12 EP-3-12 EP-3-12B EP-3-13P EP-3-13PB EP-3-14 EP-3-14B	65 65 65 66 66 66 66 66 65	K KM2P-AU KM2PB-AU KM2PB-AU KM2PB BULK KM2P BULK KS3P KS3P-AU KS3PB	118 118 118 118 118 118 118 118 118	MP-4164-85S-C MP-4164-150S MP-4164-150S-C MP-6211-39S MP-6211-61S MP-6211-61S-C MP-6212-39S MP-6212-39S-C MP-6212-39S-C MP-6212-61S MP-6212-61S-C MP-6212-61S-C	126 126 130 130 130 130 131 131 131 131 131 130
AG3F AG3FCCH AG3FCE AG3FCRV AG3FL AG3M AG3MCC AG3MCCH AG4F AG4F AG4FCCH AG4FCE	90 51 51 52 51 51 51 51 51 51 51	AX3MDVB-M3 AX3MDV-M3 AX4F AX4FB AX4FBAU AX4FBAU AX4FBBULK AX4FBBULK AX4FD AX4FDB AX4FDB AX4FDBAU AX4FDV AX4FDV AX4FDVB	17 17 4 4 4 4 18 18, 19 18, 19 18, 19 18 18 18	E EP-3-11P EP-3-12 EP-3-12 EP-3-12B EP-3-13PB EP-3-13PB EP-3-14 EP-3-148 EP-4-11P	65 65 65 66 66 66 66 65 65	K KM2P KM2P-AU KM2PB KM2PB-AU KM2PB BULK KM2P BULK KS3P KS3P-AU KS3PB KS3PB-AU KS3PB-AU KS3PB BULK	118 118 118 118 118 118 118 118 118 118	MP-4164-85S-C MP-4164-150S MP-4164-150S-C MP-6211-39S MP-6211-39S-C MP-6211-61S-C MP-6212-39S MP-6212-39S-C MP-6212-39S-C MP-6212-61S-C MP-6216-39P MP-6216-39P-C	126 126 130 130 130 130 131 131 131 131 131 130 130
AG3F AG3FCCH AG3FCE AG3FCRV AG3FL AG3M AG3MCC AG3MCCH AG4F AG4FCCH AG4FCE AG4FCRV	90 51 51 52 51 51 51 51 51 51 51 51 52	AX3MDVB-M3 AX3MDV-M3 AX4F AX4FB AX4FBAU AX4FBAU AX4FBBULK AX4FBBULK AX4FD AX4FDB AX4FDB-AU AX4FDB-AU AX4FDV AX4FDV AX4FDVB AX4FDVB	17 17 4 4 4 4 18 18, 19 18, 19 18 18 18 18, 19 18 18, 19 18	E EP-3-11P EP-3-12 EP-3-12 EP-3-12B EP-3-13P EP-3-13PB EP-3-14 EP-3-14B EP-4-11P EP-4-11PB EP-4-12	65 65 65 66 66 66 65 65 65	K KM2P KM2P-AU KM2PB KM2PB-AU KM2P BULK KM2P BULK KS3P-AU KS3PB-AU KS3PB-AU KS3PB BULK KS3P BULK	118 118 118 118 118 118 118 118 118 118	MP-4164-85S-C MP-4164-150S MP-4164-150S-C MP-6211-39S MP-6211-39S-C MP-6211-61S MP-6211-61S-C MP-6212-39S MP-6212-39S-C MP-6212-61S-C MP-6216-39P MP-6216-39P-C MP-6216-61P	126 126 130 130 130 131 131 131 131 131 130 130
AG3F AG3FCCH AG3FCE AG3FCRV AG3FL AG3M AG3MCC AG3MCCH AG4F AG4F AG4FCCH AG4FCE	90 51 51 52 51 51 51 51 51 51 51	AX3MDVB-M3 AX3MDV-M3 AX4F AX4FB AX4FBAU AX4FBAU AX4FBBULK AX4FBBULK AX4FD AX4FDB AX4FDB AX4FDBAU AX4FDV AX4FDV AX4FDVB	17 17 4 4 4 4 18 18, 19 18, 19 18, 19 18 18 18 18 18, 19 18 3	E EP-3-11P EP-3-12 EP-3-12 EP-3-12B EP-3-13P EP-3-13PB EP-3-14 EP-3-14B EP-4-11P EP-4-11PB EP-4-12 EP-4-12B	65 65 65 66 66 66 65 65 65 65	K KM2P KM2P-AU KM2PB KM2PB-AU KM2PB BULK KM2P BULK KS3P KS3P-AU KS3PB AU KS3PB BULK KS3P BULK KS3P BULK	118 118 118 118 118 118 118 118 118 118	MP-4164-85S-C MP-4164-150S MP-4164-150S-C MP-6211-39S MP-6211-39S-C MP-6211-61S-C MP-6212-39S MP-6212-39S-C MP-6212-39S-C MP-6212-61S-C MP-6216-39P MP-6216-39P-C	126 126 130 130 130 130 131 131 131 131 131 130 130
AG3F AG3FCCH AG3FCE AG3FCRV AG3FL AG3M AG3MCC AG3MCCH AG4F AG4FCCH AG4FCCH AG4FCRV AG4FCRV AG4FL	90 51 51 52 51 51 51 51 51 51 51 52 51	AX3MDVB-M3 AX3MDV-M3 AX4F AX4FB AX4FBAU AX4FBBULK AX4FBBULK AX4FD AX4FDB AX4FDB-AU AX4FDB-AU AX4FD-M3 AX4FDVB AX4FDVB AX4FDV-M3 AX4FDV-M3 AX4M	17 17 4 4 4 4 18 18, 19 18, 19 18 18 18 18, 19 18 18, 19 18	E EP-3-11P EP-3-12 EP-3-12 EP-3-12B EP-3-13P EP-3-13PB EP-3-14 EP-3-14B EP-4-11P EP-4-11PB EP-4-12	65 65 65 66 66 66 65 65 65	K KM2P KM2P-AU KM2PB KM2PB-AU KM2P BULK KM2P BULK KS3P-AU KS3PB-AU KS3PB-AU KS3PB BULK KS3P BULK	118 118 118 118 118 118 118 118 118 118	MP-4164-85S-C MP-4164-150S MP-4164-150S-C MP-6211-39S MP-6211-39S-C MP-6211-61S MP-6211-61S-C MP-6212-39S MP-6212-39S-C MP-6212-61S-C MP-6216-39P MP-6216-39P-C MP-6216-61P MP-6216-61P-C	126 126 130 130 130 131 131 131 131 131 130 130
AG3F AG3FCCH AG3FCE AG3FCRV AG3FL AG3M AG3MCC AG3MCCH AG4F AG4FCCH AG4FCCH AG4FCRV AG4FCRV AG4FL AG4FL AG4M	90 51 51 52 51 51 51 51 51 51 52 51 51	AX3MDVB-M3 AX3MDV-M3 AX4F AX4FB AX4FBAU AX4FBBULK AX4FBBULK AX4FD AX4FDB AX4FDB-AU AX4FDB-AU AX4FD-M3 AX4FDV AX4FDVB AX4FDV-M3 AX4M AX4MB	17 17 4 4 4 4 18 18, 19 18, 19 18 18 18 18, 19 18 3 4	E EP-3-11P EP-3-12 EP-3-12 EP-3-12B EP-3-13P EP-3-13PB EP-3-14 EP-3-14B EP-4-11P EP-4-11PB EP-4-12 EP-4-12B EP-4-13P	65 65 65 66 66 66 65 65 65 65 65	K KM2P KM2P-AU KM2PB KM2PB-AU KM2PB BULK KM2P BULK KS3P KS3P-AU KS3PB AU KS3PB BULK KS3P BULK KS3P BULK	118 118 118 118 118 118 118 118 118 118	MP-4164-85S-C MP-4164-150S MP-4164-150S-C MP-6211-39S MP-6211-39S-C MP-6211-61S MP-6211-61S-C MP-6212-39S MP-6212-39S-C MP-6212-61S MP-6216-61S-C MP-6216-39P-C MP-6216-61P MP-6216-61P-C MP-6256-39P	126 126 130 130 130 131 131 131 131 131 130 130
AG3F AG3FCCH AG3FCE AG3FCRV AG3FL AG3M AG3MCC AG3MCC AG3MCCH AG4F AG4FCCH AG4FCCH AG4FCE AG4FCEV AG4FL AG4FL AG4M AG4MCC	90 51 51 52 51 51 51 51 51 51 52 51 51 51	AX3MDVB-M3 AX3MDV-M3 AX4F AX4FB AX4FB-AU AX4FB-AU AX4FB BULK AX4F BULK AX4FD AX4FDB-AU AX4FD-M3 AX4FDV AX4FDVB AX4FDVB AX4FDV-M3 AX4M AX4MB AX4MB	17 17 4 4 4 18 18, 19 18, 19 18 18 18 18, 19 18 3 4 4	E EP-3-11P EP-3-12 EP-3-12 EP-3-12B EP-3-13P EP-3-13PB EP-3-14 EP-3-14B EP-4-11P EP-4-11P EP-4-12 EP-4-12 EP-4-12B EP-4-13P EP-4-13PB	65 65 65 66 66 66 65 65 65 65 65 66	K KM2P KM2P-AU KM2PB KM2PB-AU KM2PB BULK KM2P BULK KS3P KS3P-AU KS3PB-AU KS3PB BULK KS3P BULK KS3PC-AU	118 118 118 118 118 118 118 118 118 118	MP-4164-85S-C MP-4164-150S MP-4164-150S-C MP-6211-39S MP-6211-39S-C MP-6211-61S MP-6211-61S-C MP-6212-39S MP-6212-39S-C MP-6212-61S MP-6212-61S-C MP-6216-39P-C MP-6216-61P MP-6216-61P-C MP-6256-39P-C	126 126 130 130 130 131 131 131 131 131 130 130
AG3F AG3FCCH AG3FCE AG3FCRV AG3FL AG3M AG3MCC AG3MCCH AG4F AG4FCCH AG4FCCH AG4FCRV AG4FCRV AG4FL AG4FL AG4M	90 51 51 52 51 51 51 51 51 51 51 51 51 51 51	AX3MDVB-M3 AX3MDV-M3 AX4F AX4FB AX4FB-AU AX4FB BULK AX4F BULK AX4F BULK AX4FD AX4FDB-AU AX4FDB-AU AX4FD-M3 AX4FDVB AX4FDVB AX4FDVM3 AX4MB AX4MB-AU AX4MB BULK	17 17 4 4 4 18 18, 19 18, 19 18 18 18, 19 18 18 3 4 4 4	E EP.3-11P EP.3-12 EP.3-12 EP.3-12 EP.3-13P EP.3-13P EP.3-14 EP.3-14 EP.3-148 EP.4-11P EP.4-11P EP.4-12 EP.4-12B EP.4-13P EP.4-13P EP.4-14	65 65 66 66 66 66 65 65 65 65 66 66 66	K KM2P KM2P-AU KM2PB KM2PB-AU KM2PB BULK KM2P BULK KS3P KS3P-AU KS3PB AU KS3PB BULK KS3P BULK KS3P BULK	118 118 118 118 118 118 118 118 118 118	MP-4164-85S-C MP-4164-150S MP-4164-150S-C MP-6211-39S MP-6211-39S-C MP-6211-61S MP-6212-39S MP-6212-39S MP-6212-39S-C MP-6212-61S MP-6216-39P-C MP-6216-61P MP-6216-61P-C MP-6256-39P-C MP-6256-39P-C	126 126 130 130 130 131 131 131 131 130 130 130
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		RJX8FD6110	85	SP-4-MDV-2	59	
RJD32U1-0050	76	RJX8M	79	SP-4-MDVT-8	59	
RJD1112-0050	76			3F-4-IVIDV I-0	39	
		RJX8MB	79			
RJD1212-0050	76	RJX8MB BULK	79	Т		
RJD2103-0050	76			I		
		RJX8M BULK	79			
RJD2203-0050	76	RJXS8FD3HB	86	T2860	134	
RJX8FA3HB	82					
		RJXS8FD3VB	86	T2890	134	
RJX8FA3VB	83	RJXS8FD5HB	86	TH29-1	128	
RJX8FA5VB	83					
		RJXS8FD5I	86	TM1P	98	
RJX8FA6HB	82	RJXS8FD5T	86	TM1P-AU	98	
RJX8FA6VB	83			TM1PB	98	
		RJXS8FD5VB	86			
RJX8FB3HB	82	RJXS8FD6HB	86	TM1PB-AU	98	
RJX8FB3HEB	82				98	
		RJXS8FD6I	86	TM1PBJ		
RJX8FB3VB	83	RJXS8FD6VB	86	TM1PJ	98	
RJX8FB3VEB	83			TM1RBJ	98	
RJX8FB5HB	82	RJXS8FD5110	86			
		RJXS8FD6110	86	TM1RBJ-AU	98	
RJX8FB5HEB	82		86	TM1RJ	98	
		RJXS8FG3HB				
RJX8FB5HGRB	82	RJXS8FG3VB	86	TM1RJ-AU	98	
RJX8FB5HGREB	83			TM2P	94	
		RJXS8FG5HB	86			
RJX8FB5HGYB	82	RJXS8FG5I	86	TM2P-AU	94	
RJX8FB5HGYEB	83			TM2PB	94	
RJX8FB5HRGB		RJXS8FG5T	86			
КЈХОГВЭНКСВ	82	RJXS8FG5VB	86	TM2PB-AU	94	
RJX8FB5HRGEB	83			TM2PB BULK	94	
		RJXS8FG6HB	86			
RJX8FB5HRRB	82	RJXS8FG6I	86	TM2PBJ	94	
RJX8FB5HRREB	83			TM2P BULK	94	
	82	RJXS8FG6VB	86			
RJX8FB5HRYB		RJXS8FG5110	86	TM2PJ	94	
RJX8FB5HRYEB	83			TM2PN	95	
	82	RJXS8FG6110	86			
RJX8FB5HUUB				TM2PN-AU	95	
RJX8FB5HUUEB	83	c		TM2PN BULK	95	
		S				
RJX8FB5VB	83			TM2PNJ	95	
RJX8FB5VEB	83	SP-2-F	56	TM2RBJ	95	
RJX8FB5VGRB	83	SP2F2FDW	134	TM2RBJ-AU	95	
RJX8FB5VGREB	84	SP-2-FB	56	TM2RBJ BULK	95	
RJX8FB5VGYB	83	SP-2-FBG	56	TM2RJ	95	
RJX8FB5VGYEB	84	SP-2-FBL	56	TM2RJ-AU	95	
RJX8FB5VRGB	83	SP-2-FBS	56	TS3P	94	
RJX8FB5VRGEB	84	SP-2-FBSG	56	TS3P-AU	94	
		01-2-1000	30	1001-A0	34	

# **PRODUCT SAFETY INFORMATION**

This should be read in conjunction with Data Sheet information contained in individual product brochures. Failure to observe the advice in this information sheet and the operating conditions specified in the Data Sheets could result in hazardous situations.

#### 1. Material Content and Physical Form

Electrical connectors do not usually contain hazardous materials. They contain conducting and non-conducting materials. Shells are manufactured in metal and plastic. Insulators can be formed in either natural rubber, synthetic rubber, plastic or glass insulating materials. Contact materials vary with the type of connector and its application. They are usually manufactured from either copper alloys, nickel, alumel, chromel or steel. In special applications, other alloys may be specified.

# 2. Fire Characteristics and Electric Shock Hazard

There is no fire hazard when the connector is correctly wired and used within the specified parameters. Incorrect wiring or assembly of the connector or careless use of metal tools or conductive fluids, or transit damage to any of the component parts may cause electric shock or burns. Live circuits must not be broken by separating mated connectors as this may cause arcing, ionisation and burning. Heat dissipation is greater at maximum resistance in a circuit. Hot spots may occur when resistance is raised locally by damage, e.g. cracked or deformed contacts, or broken strands of wire. Local overheating may also result from the use of the incorrect application tools or from poor quality soldering.

Overheating may occur if the ratings in the Data Sheets are exceeded and can cause breakdown of insulation and hence electric shock.

If heating is allowed to continue it intensifies by further increasing the local resistance through loss of temper or spring contact, formation of oxide film on contacts and wires, and leakage currents through carbonisation of insulation and tracking points. Fire can then result in the presence of combustible materials and this may release noxious fumes. Overheating may not be visually apparent. Burns may result from touching overheated components.

#### 3. Handling

Care must be taken to avoid damage to any component parts of electrical connectors during installation and use. Although there are normally no sharp edges, care must be taken when handling certain components to avoid injury to fingers. Electrical connectors may be damaged in transit to customers, and damage may result in creation of hazards. Products should therefore be examined prior to installation/use and rejected if found to be damaged.

#### 4. Disposal

Incineration of certain materials may release noxious or even toxic fumes.

#### 5. Application

Connectors with exposed contacts should not be selected for use on the current supply side of an electrical circuit, because an electric shock could result from touching exposed contacts of an unmated connector. Voltages in excess of 30 V.A.C. or 42.5 V.D.C. are potentially hazardous and care should be taken to ensure that such voltages cannot be transmitted in any way to exposed metal parts of the connector body. The connector and wiring should be checked, before making live, to have no damage to metal parts or insulators, no solder blobs, loose strands, conducting lubricants, swarf, or any other undesired conducting particles. Circuit resistance and continuity check should be made to make certain that there are no low resistance joints or spurious conducting paths. Always use the correct application tools as specified in the Data Sheets. Do not permit untrained personnel to wire, assemble or tamper with connectors. For operation voltage please see appropriate national regulations.

#### Important General Information

# A) Air and creepage paths / Operating voltage.

The admissible operating voltages depend on the individual applications and the valid national and other applicable safety regulations. For this reason the air and creepage path data are only reference values. Observe reduction of air and creepage paths due to PC board and/or harnessing.

### B) Other important information

Amphenol Australia Pty Ltd continuously endeavours to improve its products. Therefore, products may deviate from the description, technical data and shape as shown in product brochures.

#### C) Assembly instructions

If applicable, special assembly instructions have been included in or on the connector packaging. See also separate instructions in product brochures.



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