

















**ENTERTAINMENT INTERCONNECT CATALOGUE** 



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



# AX SERIES XLR CABLE CONNECTORS

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

#### **Features**

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

#### **Options**

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

#### **Ordering Codes**

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

# Simple steps to guide you in using this catalogue

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

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



- 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 7

**Specifications: Page 10** 

Assembly Instructions: Page 8 & 9

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	619 [0.744"]	71 - 74 [2.80-2.90"]	XLR 3 pole male Machined contacts Nickel Finish	Standard	AX3M
	1 610	Amphenol		Bulk Pack	AX3M BULK
	E	~ 71 - 74 [2.80-2.90°]	XLR 3 pole male Machined contacts	Standard	AX3MB
947.0] 6187	Ø19 [0.74	Amphenol	Black Finish	Gold Plated Contacts	AX3MB-AU
				Bulk Pack	AX3MB BULK
	15.8	73 -75	XLR 3 pole female Stamped contacts Nickel Finish	Standard	AXX3F
	0 15			Bulk Pack	AXX3F BULK
	, ,	73 -75 — ——	XLR 3 pole female Stamped contacts	Standard	AXX3FB
	15.8	Nickel Finish	Gold Plated Contacts	AXX3FB-AU	
	0			Bulk Pack	AXX3FB BULK

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

## **AX Series XLR Cable Connectors**

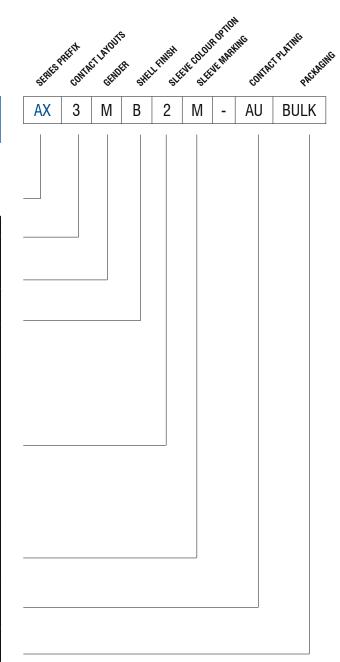
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	Ø19 [0.744*]	—71 - 74 [2.80-2.90"]	XLR 4 pole male Machined contacts Nickel Finish	Standard	AX4M
	] 6100			Bulk Pack	AX4M BULK
	£		XLR 4 pole male Machined contacts	Standard	AX4MB
	(819 [0.744°]		Black Finish	Gold Plated Contacts	AX4MB-AU
	615			Bulk Pack	AX4MB BULK
	Ø15.7 [0.6187]	-71 - 74 <b>[2.80-2.90"]</b>	XLR 4 pole female Machined contacts Nickel Finish	Standard	AX4F
				Bulk Pack	AX4F BULK
	[46187]	-71 - 74 [2.80-2.90"]	XLR 4 pole female Machined contacts	Standard	AX4FB
	71 - 74 [2.80-2.90"]	Black Finish	Gold Plated Contacts	AX4FB-AU	
			Bulk Pack	AX4FB BULK	
	71 - 74 [2.80-2.90"]	XLR 5 pole male Machined contacts Nickel Finish	Standard	AX5M	
				Bulk Pack	AX5M BULK
	71 - 74 [2.80-2.90*]	—71 - 74 [2.80-2.90"]—— <b>—</b>	XLR 5 pole male Machined contacts	Standard	AX5MB
9		Black Finish	Gold Plated Contacts	AX5MB-AU	
	Amphan			Bulk Pack	AX5MB BULK
	71 - 74 [2.80-2.90"]	-71 - 74 [2.80-2.90"]	XLR 5 pole female Machined contacts Nickel Finish	Standard	AX5F
			Bulk Pack	AX5F BULK	
	71 - 74 [2.80-2.90"]	-71 - 74 [2.80-2.90"]	XLR 5 pole female Machined contacts	Standard	AX5FB
CG.			Black Finish	Gold Plated Contacts	AX5FB-AU
				Bulk Pack	AX5FB BULK

# PART NUMBER BREAKDOWN

METAL SHELL TYPE - SOLDER

E. G . AX3MB2M-AU BULK
AX (Series Prefix), 3 contacts, Male, Black Finish,
2 (Red Sleeve) M (Sleeve Marking) - AU (Gold Plated Contacts), Bulk Packaged.

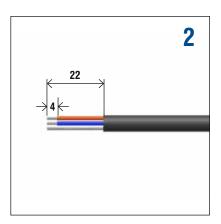
SERIES PREFIX	AX	=	Series Prefix
CONTACT LAYOUTS	3	=	3 Contacts
	4	=	4 Contacts
	5	=	5 Contacts
GENDER	F	=	Female Socket Contacts
	М	=	Male Pin Contacts
SHELL FINISH	Blank	=	Nickel Plated Finish
	В	=	Black Finish
SLEEVE COLOUR	Blank	=	Black
OPTION	1	=	Brown
	2	=	Red
	3	=	Orange
	4	=	Yellow
	5	=	Green
	6	=	Blue
	7	=	Violet
	8	=	Grey
	9	=	White
SLEEVE MARKING	Blank	=	Standard Sleeve
	0M	=	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
	BULK	=	Bulk Packed



#### **AX Series XLR 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.



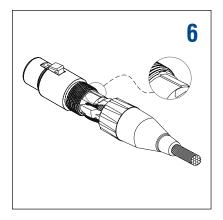
Install the cable clamp, flush to the insert making sure to align the top slot with the spring. Then push the insert & cable clamp together into the shell.



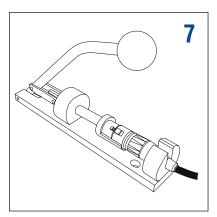
Thread the nut (Backshell) onto the shell (Torque 0.8Nm - 1.2Nm) to activate the cable clamp and close the connector assembly.

# 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.

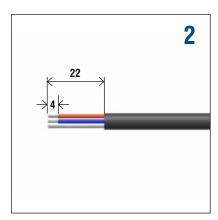


Final assembly can be achieved either by manually screwing the boot on, or by using an Amphenol Australia T2860 termination tool.

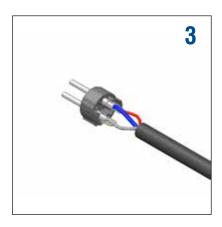
#### **AX Series XLR Cable Connectors**



Slide the nut (Backshell) onto the cable



Strip the cable



Solder the wires to the contacts.

www.amphenolaudio.com



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	Number of contacts	3	4	5			
CHARACTERISTICS	AX Series Contact Arrangements (Front view of pin inserts)	<b>1</b>	(1 4 6 2 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2 3 4			
	Termination		SOLDER				
	Max. Wire Gauge - Stranded wire: Solder	14AWG	16AWG	18AWG			
	Flammability rating of insulator plastics and housings		UL94V-0				
	Environmental	Complie	es with EU RoHS 2 Directive 201	1/65/EU			
ELECTRICAL CHARACTERISTICS	Service Voltage RMS		133V 1)				
CHANACIENISTICS	Test Voltage AC RMS		1400V				
	Current carrying capacity: Solder	15A	10A	7.5A			
	Typicial Contact Resistance		≤3m Ω				
	Insulation Resistance		≥1G Ω				
CLIMATIC Characteristics	Protection Class	IP40					
CHANACIENIOTICO	Operating Temperature	-1	25°C to +75°C (-13°F to -167°	F)			
MECHANICAL Characteristics	Insertion and Withdrawal force	≥10N - ≤30N					
CHANACIENISTICS	Weight 2)	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)					

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

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



# AC SERIES XLR CABLE CONNECTORS

Amphenol 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 O.D 6.5mm to 8mm (0.255" to 0.314")
- Metal Boots / Backshells
- Coloured Boots / Backshells
- Coloured Identification rings
- Termination / Assembly tooling

#### **Jaws Cable Clamp Options**



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



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

#### **Ordering Codes**

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- 8) Please contact us directly if you have any further problems.

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



#### 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 15

**Specifications: Page 17** 

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	82.0 [3.228"]  XLR 3 pole male, Machined contacts, Nickel Finish, Jaws cable clamp	Machined contacts, Nickel Finish,	Standard  Bulk Pack	AC3MM BULK	
	<b>V</b>				
	▼	—82.0 [3.228″] <del> </del>	XLR 3 pole male, Machined contacts,	Standard	AC3MMB
3	Ø19.0 [0.748"] 0	Year-move.	Black Finish, Jaws cable clamp	Gold Plated Contacts	AC3MMB-AU
				Bulk Pack	AC3MMB BULK
	82.0 [3.228"] Ø19.0 [0.748"]	XLR 3 pole male, Stamped contacts, Nickel Finish,	Standard	AC3M	
		Jaws cable clamp	Large Cable Clamp	AC3MJ	
•	<u> </u>			Bulk Pack	AC3M BULK
	82.0 [3.228*] Ø19.0 [0.748*]	XLR 3 pole male, Stamped contacts, Black Finish, Jaws cable clamp	Standard	AC3MB	
			Gold Plated Contacts	AC3MB-AU	
			Large Cable Clamp	AC3MBJ	
•			Bulk Pack	AC3MB BULK	
	82.0 [3.228"] ø[9.0 [.748"]	XLR 3 pole female, Stamped contacts, Nickel Finish, Jaws cable clamp	Standard	AC3F	
			Large Cable Clamp	AC3FJ	
			Bulk Pack	AC3F BULK	
	82.0 [3.228"] Ø19.0 [.748"]	XLR 3 pole female, Stamped contacts, Black Finish, Jaws cable clamp	Standard	AC3FB	
			Gold Plated Contacts	AC3FB-AU	
			Large Cable Clamp	AC3FBJ	
	у — Ч			Bulk Pack	AC3FB BULK

## **AC Series XLR Cable Connectors**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	82.0 [3.228*]		XLR 4 pole male, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC4M
	ø19.0 [0.748″]		Jaws Cable Claffip	Large Cable Clamp	AC4MJ
	<u> </u>			Bulk Pack	AC4M BULK
		02.0 [2.220#]	XLR 4 pole male,	Standard	AC4MB
	A	-82.0 [3.228"]	Machined contacts, Black Finish,	Gold Plated Contacts	AC4MB-AU
	ø19.0 [0.748″]		Jaws cable clamp	Large Cable Clamp	AC4MBJ
	<u> </u>			Bulk Pack	AC4MB BULK
		—82.0 [3.228*]———————————————————————————————————	XLR 4 pole female, Machined contacts, Nickel Finish,	Standard	AC4F
	ø19.0 [.748"]		Jaws cable clamp	Large Cable Clamp	AC4FJ
				Bulk Pack	AC4F BULK
•	82.0 [ Ø19.0 [.748*]	—82.0 [3.228″]—— <del></del>	XLR 4 pole female, Machined contacts, Black Finish, Jaws cable clamp	Standard	AC4FB
				Gold Plated Contacts	AC4FB-AU
				Large Cable Clamp	AC4FBJ
0.5				Bulk Pack	AC4FB BULK
	82.0 [3.228"] Ø19.0 [0.748"]	—82.0 [3.228*]———————————————————————————————————	XLR 5 pole male, Machined contacts, Nickel Finish,	Standard	AC5M
		Jaws cable clamp	Large Cable Clamp	AC5MJ	
				Bulk Pack	AC5M BULK
	les-	—82.0 [3.228″]—— <del>□</del>	XLR 5 pole male, Machined contacts,	Standard	AC5MB
	<u></u> Γ		Black Finish, Jaws cable clamp	Gold Plated Contacts	AC5MB-AU
	Ø1 <sup>5</sup> .0 [0.748″] 0		Jaws Cable Claffip	Large Cable Clamp	AC5MBJ
•	<u> </u>			Bulk Pack	AC5MB BULK
		—82.0 [3.228 <sup>#</sup> ]———	XLR 5 pole female, Machined contacts, Nickel Finish,	Standard	AC5F
	ø19.0 [.748″]		Jaws cable clamp	Large Cable Clamp	AC5FJ
	<u> </u>			Bulk Pack	AC5F BULK
	ks	—821 [3228#1——⇒	XLR 5 pole female,	Standard	AC5FB
	Ø19.0 [.748"]		Machined contacts, Black Finish, Jaws cable clamp	Gold Plated Contacts	AC5FB-AU
				Large Cable Clamp	AC5FBJ
				Bulk Pack	AC5FB BULK

## **AC Series XLR 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″]		Jawa Cabic Clarrip	Large Cable Clamp	AC6AMJ
	<u> </u>			Bulk Pack	AC6AM BULK
		—82.0 [3.228″]——⊶	XLR 6A pole male, Machined contacts,	Standard	AC6AMB
		02.0 [3.220]	Black Finish, Jaws cable clamp	Gold Plated Contacts	AC6AMB-AU
	ø1 <sup>9</sup> .0 [0.748″]	TO HELL MAN AND AND AND AND AND AND AND AND AND A	Jaws cable clamp	Large Cable Clamp	AC6AMBJ
	<u>V</u>			Bulk Pack	AC6AMB BULK
		—82.0 [3.228*]————	XLR 6A pole female, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC6AF
	ø19.0 [.748"]	THE PROPERTY OF THE PROPERTY O	Jaws cable clamp	Large Cable Clamp	AC6AFJ
	<u> </u>			Bulk Pack	AC6AF BULK
	82.0 [3. Ø19.0 [.748"]	02.0.12.220#1	XLR 6A pole female,	Standard	AC6AFB
		82.0 [3.228]	Machined contacts, Black Finish, Jaws cable clamp	Gold Plated Contacts	AC6AFB-AU
				Large Cable Clamp	AC6AFBJ
				Bulk Pack	AC6AFB BULK
	82.0 [3.228"] ø19.0	—82.0 [3.228″]—— <del>~</del>	XLR 7 pole male, Gold plated	Standard	AC7M
			Machined contacts, Nickel Finish, Jaws cable clamp		
	[0.748″] [0			Large Cable Clamp	AC7MJ
			VI D 7 and and	Bulk Pack	AC7M BULK
	82.0 [3.228"]	—82.0 [3.228*]———————————————————————————————————	XLR 7 pole male, Gold plated Machined contacts,	Standard	AC7MB
	Ø19.0 [0.748*]		Black Finish, Jaws cable clamp	Large Cable Clamp	AC7MBJ
•	<u> </u>			Bulk Pack	AC7MB BULK
		020 [2220#]	XLR 7 pole female,	Standard	AC7F
		82.0 [3.228"]	Gold plated Machined contacts,		
	ø19.0 [.748*]		Nickel Finish, Jaws cable clamp	Large Cable Clamp	AC7FJ
		(C)		Bulk Pack	AC7F BULK
	<u></u>	— 82 N [3 220#1— ~·	XLR 7 pole female,	Standard	AC7FB
	82.0 [3.228*] Ø19.0 [.748*]		Gold plated Machined contacts,		
		Black Finish, Jaws cable clamp	Large Cable Clamp	AC7FBJ	
			Bulk Pack	AC7FB BULK	

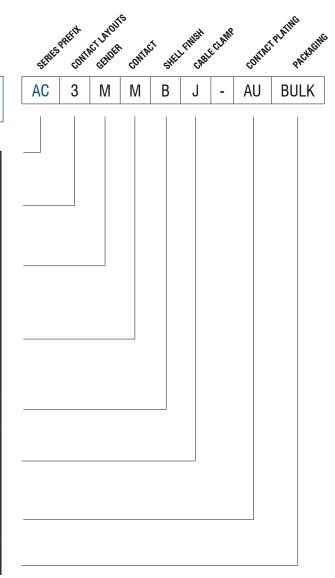
# PART NUMBER BREAKDOWN

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
CONTACT1	Blank	=	Stamped Contacts
	M	=	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>&</sup>lt;sup>1</sup>4 - 7 contact connectors have machined contacts and grounding as standard.

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

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

<sup>&</sup>lt;sup>4</sup> All AC Series Connectors are available with optional colour coded boot / backshell. Refer to page 154 and simply add colour to end of part number. Example: AC3MM - RED

#### **AC Series XLR 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 17** 

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	ļ -	—82.0 [3.228"]———	XLR 3 pole male, Machined contacts, Thermoplastic shell, Jaws cable clamp	Standard	АСЗММСР
	Ø19.0 [0.748"]	ОМЕНЬНЫМО		Bulk Pack	AC3MMCP BULK
	,	—82.0 [3.228']————	XLR 3 pole male, Stamped contacts, Thermoplastic shell, Jaws cable clamp	Standard	AC3MCP
	ø19.0 [0.748*]	AMERICA		Bulk Pack	AC3MCP BULK
		—82.0 [3.228"]————	XLR 3 pole female, Stamped contacts, Thermoplastic shell, Jaws cable clamp	Standard	AC3FCP
	Ø19.0 [0.748*]	TOMES-GAMY		Bulk Pack	AC3FCP BULK

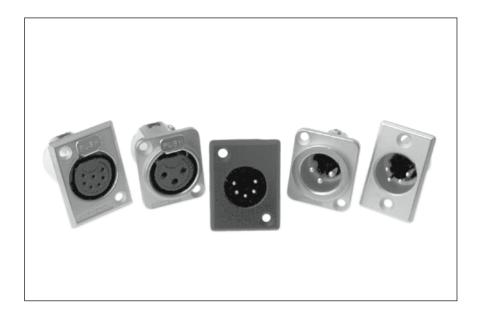
Note: Thermoplastic shell connectors are also available in 4 - 7 contact arrangements, please contact us for ordering code.

# STANDARD DATA AC CABLE CONNECTORS

					VALUE			
GENERAL	Number of contacts		3	4	5	6A	7	
CHARACTERISTICS	AC Series Contact A (Front view of pin in			(a) 4 (a) 6 (b) 4 (c) 6 (d) 7 (d) 7	1 5 6 8 3 4 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2 6 5 2 3 4	1 7 6 2 3 4 5	
	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 Directi	ve 2011/65/EU		
ELECTRICAL CHARACTERISTICS	Service Voltage RM	S			133V <sup>1</sup>			
CHANACIENISTICS	Test Voltage AC RM	S			1400V			
	Current carrying ca	pacity: Solder	15A	10A	7.	5A	5A	
	Typical Contact Res	istance			≤3mΩ			
	Insulation Resistant	e			≥1GΩ			
CLIMATIC Characteristics	Protection Class				IP40			
OHAHAOTEHIOTIOO	Operating Temperat	ure	-25°C to +75°C (-13°F to +167°F)					
MECHANICAL Characteristics	Insertion and Withdrawal force		≥10N - ≤30N					
	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, UL94V-0 Modified PPE Resin Black					
	Insulators		UL94V-0 PBT Resin or Modified PPE Resin					
	Boot / Backshell		UL94V-0 Modified PPE Resin or Machined Brass					
	Finish	T	Black, other colours available - see page 154					
	Cable clamp (JAWS)	Standard Solder Large Solder		d PPO Resin (Black d PPO Resin (Purpl	•			
	Cable Bushing		Santoprene					
	Male Contact (Solder / Plating)	Stamped Machined	Phosphor Bronze Brass / Silver or (	/ Silver or Gold (O Gold (Optional)	ptional)			
	Female Contact (Solder / Plating)	Stamped Machined	Phosphor Bronze Brass / Silver or (	/ Tin or Gold (Optional)	onal)			

<sup>&</sup>lt;sup>1)</sup> Not suitable for domestic applications above 50V <sup>2)</sup> Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.

#### **AC/AX Series XLR Metal Chassis Mount Connectors**



# AC/AX SERIES XLR METAL CHASSIS MOUNT CONNECTORS

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 3 pole
- Latchless versions (Non-Latching) (Female only)

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

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

#### **Ordering Codes**

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

# Simple steps to guide you in using this catalogue

- 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.

#### **AC/AX Series XLR Metal Chassis Mount Connectors**



#### 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 22

**Specifications: Page 28** 

PRODUCT	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NO.
		XLR 3 pole male, D Flange,	Standard	AX3MD
		Machined contacts, Nickel Finish	M3 Threaded Holes	AX3MD-M3
			Vertical PCB	AX3MDV
	-26.0 [1.024]3.0 [0.118]3.1 [1.222]3.0 [0.118]		M3 Threaded Holes	AX3MDV-M3
	1.220 1.2200 1.2	XLR 3 pole male, D Flange,	Standard	AX3MDB
	31.0 [1.220] 31.0 [1.220] 22.0 [0.843] 21.4 [0.843]	Machined contacts, Black Finish	M3 Threaded Holes	AX3MDB-M3
	9.5 SOLDER CONTACTS PCB CONTACTS 24.45 [0.963]		Gold Plated Contacts	AX3MDB-AU
			Vertical PCB	AX3MDVB
			M3 Threaded Holes	AX3MDVB-M3
		XLR 3 pole female, D Flange, Stamped contacts, Nickel Finish	Standard	AX3FD
	26.0 [1.024] — 6.3 [0.248] — 30.5 [1.200] — 2.5 [0.098] — 2.5 [0.098]		M3 Threaded Holes	AX3FD-M3
(eusH)		XLR 3 pole female,	Standard	AX3FDB
	9.5 SOLDER CONTACTS PCB CONTACTS 24.45 [0.963]	D Flange, Stamped contacts, Black Finish	M3 Threaded Holes	AX3FDB-M3
C.			Gold Plated Contacts	AX3FDB-AU

## **AC/AX Series XLR Metal Chassis Mount Connectors**

PRODUCT	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NO.
		XLR 4 pole male,	Standard	AX4MD
9		D Flange, Machined contacts, Nickel Finish	M3 Threaded Holes	AX4MD-M3
3		THOROT I IIIIOII	Vertical PCB	AX4MDV
	-26.0 [1.024]3.0 [0.118] - 3.1 [1.222]3.0 [0.118] - 3.0 [0.118]		M3 Threaded Holes	AX4MDV-M3
	21.0 [1.220] 24.0 [0.945] 21.4 [0.843]	XLR 4 pole male, D Flange,	Standard	AX4MDB
	24.0 [0.945] 21.4 [0.843]	Machined contacts, Black Finish		
	9.5 SOLDER CONTACTS PCB CONTACTS 24.45 [0.963]		Gold Plated Contacts	AX4MDB-AU
1			Vertical PCB	AX4MDVB
G GG		XLR 4 pole female, D Flange,	Standard	AX4FD
		Machined contacts, Nickel Finish	M3 Threaded Holes	AX4FD-M3
	-26.0 [1.024]6.3 [0.248] -30.5 [1.200] -2.5 [0.098]		Vertical PCB	AX4FDV
1			M3 Threaded Holes	AX4FDV-M3
P085	31.0 [1.220] -24.0 [0.945] -22.9 [0.901]	XLR 4 pole female, D Flange, Machined contacts, Black Finish	Standard	AX4FDB
	9.5 19.0 [0.748] 9.5 SOLDER CONTACTS PCB CONTACTS 24.50 [0.965] 24.50 [0.965]		Gold Plated Contacts	AX4FDB-AU
			Vertical PCB	AX4FDVB
		XLR 5 pole male,	Standard	AX5MD
18		D Flange, Machined contacts, Nickel Finish	M3 Threaded Holes	AX5MD-M3
		Worker Fillion	Vertical PCB	AX5MDV
	-26.0 [1.024]3.0 [0.118] - 31.0 [1.222]3.0 [0.118]3.0 [0.118]		M3 Threaded Holes	AX5MDV-M3
	21.4 [0.843]	XLR 5 pole male, D Flange, Machined contacts, Black Finish	Standard	AX5MDB
	9.5 SOLDER CONTACTS PCB CONTACTS 25.45 [1.002] - 24.45 [0.963]	DIGUN FIIIISII	Gold Plated Contacts	AX5MDB-AU
			Vertical PCB	AX5MDVB

## **AC/AX Series XLR Metal Chassis Mount Connectors**

PRODUCT	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NO.
	26.0 [1.024]  -26.0 [1.024]  -26.0 [0.079]  -25.0 [0.079]  -25.0 [0.079]  -25.0 [0.079]  -25.0 [0.079]  -25.0 [0.079]  -25.0 [0.079]  -25.0 [0.079]  -25.0 [0.079]  -25.0 [0.079]  -25.0 [0.079]  -25.0 [0.079]  -26.0 [1.024]  -26.0 [1.024]	XLR 5 pole female, D Flange, Machined contacts, Nickel Finish  XLR 5 pole female, D Flange, Machined contacts, Black Finish	Standard M3 Threaded Holes Vertical PCB M3 Threaded Holes Standard Gold Plated Contacts Vertical PCB	AX5FD AX5FD-M3 AX5FDV-M3 AX5FDV-M3 AX4FDB AX4FDB-AU AX4FDB-B
	26.0 [1.024]  -26.0 [1.024]  -26.0 [1.024]  -25.5 [0.098]  -25.5 [	XLR 6A pole male, D Flange, Machined contacts, Nickel Finish  XLR 6A pole male, D Flange, Machined contacts, Black Finish	Standard M3 Threaded Holes  Vertical PCB M3 Threaded Holes  Standard  Gold Plated Contacts  Vertical PCB	AX6AMD  AX6AMDV  AX6AMDV-M3  AX6AMDV-M3  AX6AMDB-AU  AX6AMDB-AU
	26.0 [1.024]  -26.0 [0.079]  -2.0 [0.079]  -2.5 [0.098]  -2.5 [0.098]  -2.5 [0.098]  -2.6 [0.079]  -2.6 [0.079]  -2.7 [0.079]  -2.8 [0.079]  -2.9 [0.079]  -2.9 [0.079]  -2.5 [0.098]  -2.5 [0.098]	XLR 6A pole female, D Flange, Machined contacts, Nickel Finish  XLR 6A pole female, D Flange, Machined contacts, Black Finish	Standard M3 Threaded Holes Vertical PCB M3 Threaded Holes Standard Gold Plated Contacts Vertical PCB	AX6AFD-M3 AX6AFDV-M3 AX6AFDV-M3 AX6AFDB  AX6FADB-AU  AX6AFDVB

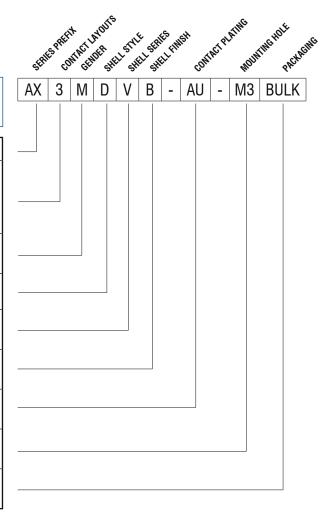
# PART NUMBER BREAKDOWN

## METAL TYPE FLANGE

E. G . AX3MDVB-AU-M3 BULK

AX (Series Prefix), 3 contacts, Male, D Small Flange, Vertical PCB Contact, Black Polyester Finish, - AU (Gold Plated Contacts), - M3 Mounted Holes, BULK Packaged.

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 PLATING2	Blank AU	= =	Standard Plating Gold Plated
MOUNTING HOLES	Blank M3	= =	Through Holes M3 Threaded Holes
PACKAGING	Blank BULK	=	Individual Bags Bulk Packed



#### Note:

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

 $<sup>^{\</sup>rm 3}$  Non-Latching Versions (Female) available - Please contact us for part number options.

#### **AC/AX Series XLR Metal Chassis Mount Connectors**



#### 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 27

**Specifications: Page 28 PCB Footprints: Page 29** Panel Cutouts: Page 29

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	19.0 [** [.748"]**	<del>-&gt;  -&gt;</del> 2.7 [.106"]	XLR 3 pole male, D Flange, Machined contacts, Nickel Finish	Standard	AC3MMDZ
	24.0 [ 945"] 11.220"]			Bulk Pack	AC3MMDZ BULK
	AMPHENOL	SOLDER CONTACTS  5.5 [.217"]	XLR 3 pole male, D Flange, Machined contacts, Black Finish	Standard	AC3MMDZB
0	l⇒ 26.0 [1.024"]-sl	32.1 [1.263"]———	Diack ( IIII 311	Gold Plated Contacts	AC3MMDZB-AU
	24.0 [.345"] -24.0 [.345"] -24.0 [.1220"]	<del></del>	XLR 3 pole male, D Flange, Stamped contacts, Nickel Finish	Standard	AC3MDZ
				Bulk Pack	AC3MDZ BULK
0	31.0 [1.		XLR 3 pole male, D Flange, Stamped contacts, Black Finish	Standard	AC3MDZB
0	l⊶ 26.0 [1.024"] →	32.1 [1.263"]——	DIACKTHIISH	Gold Plated Contacts	AC3MDZB-AU
E Part	+- 26.0 [1.024"]-+	6.5 [.256"]	XLR 3 pole female, D Flange, Stamped contacts, Nickel Finish	Standard	AC3FDZ
	PUSH [027		INICKELLIIISH	Bulk Pack	AC3FDZ BULK
9 113	310 [1.1]	SOLDER CONTACTS  5.5 [.217"]  33.5 [1.319"]	XLR 3 pole female, D Flange, Stamped contacts, Black Finish	Standard	AC3FDZB
[.748"]	[.748"]-4		DIGUN I IIIIOII	Gold Plated Contacts	AC3FDZB-AU

## **AC/AX Series XLR Metal Chassis Mount Connectors**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
\$ A.	19.0	<del>-&gt;    -</del> 2.7 [.106"]	XLR 4 pole male, D Flange, Machined contacts, Nickel Finish	Standard	AC4MDZ
	-2.4.0 [.945"] 44 [.1.220"] -1.1.0 [1.220"]			Bulk Pack	AC4MDZ BULK
(F)	220.0 [1.024"]	SOLDER CONTACTS  5.5 [.217"]	XLR 4 pole male, D Flange, Machined contacts, Black Finish	Standard	AC4MDZB
	22.00 [1.024]			Gold Plated Contacts	AC4MDZB-AU
(1)	p-26.0 [1.024"]→	<del>  </del>	XLR 4 pole female, D Flange, Machined contacts, Nickel Finish	Standard	AC4FDZ
	24.0 [.945"]- 31.0 [1.220"]			Bulk Pack	AC4FDZ BULK
0	AMPHENOL	SOLDER CONTACTS 5.5 [.217"] 32.0 [1.260"]	XLR 4 pole female, D Flange, Machined contacts, Black Finish	Standard	AC4FDZB
	19.0 [.748"]—			Gold Plated Contacts	AC4FDZB-AU
	19.0		XLR 5 pole male, D Flange, Machined contacts, Nickel Finish	Standard	AC5MDZ
·	2.40 [.945"] = 1.200"] = 1.200"] = 1.200"] = 1.200"] = 1.200"] = 1.200"] = 1.200"]	2.7 [.106"]		Bulk Pack	AC5MDZ BULK
6	AMPHENOL	SOLDER CONTACTS 5.5 [.217"]	XLR 5 pole male, D Flange, Machined contacts, Black Finish	Standard	AC5MDZB
	► 26.0 [1.024"]→		S. Control of the con	Gold Plated Contacts	AC5MDZB-AU
E Enail	r⇒ 26.0 [1.024*] →	<del> 6</del> .5 [.256"]	XLR 5 pole female, D Flange, Machined contacts, Nickel Finish	Standard	AC5FDZ
	+ + + + + + + + + + + + + + + + + + +		THOUSE I HIGH	Bulk Pack	AC5FDZ BULK
6 0.23		SOLDER CONTACTS	XLR 5 pole female, D Flange, Machined contacts, Black Finish	Standard	AC5FDZB
	19.0 [.748"]		Jack Hillion	Gold Plated Contacts	AC5FDZB-AU

24

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	19.0 [~- [.748"] ~~	<del></del>	XLR 6A pole male, D Flange, Machined contacts, Nickel Finish	Standard	AC6AMDZ
	24.0 [.945"] = 17.0 [1.220"]			Bulk Pack	AC6AMDZ BULK
9	ALTHOUGH TO	SOLDER CONTACTS	XLR 6A pole male, D Flange, Machined contacts, Black Finish	Standard	AC6AMDZB
	ام- 26.0 [1.024"] ما	امــــــــــــــــــــــــــــــــــــ	Didok i ililəli	Gold Plated Contacts	AC6AMDZB-AU
EU BU	p 26.0 [1.024"]	<del> 6</del> .5 [.256"]	XLR 6A pole female, D Flange, Machined contacts, Nickel Finish	Standard	AC6AFDZ
<b>O</b> ,	24.0 [.945°] <b>HSnd</b>			Bulk Pack	AC6AFDZ BULK
C tra	31.0	SOLDER CONTACTS	XLR 6A pole female, D Flange, Machined contacts, Black Finish	Standard	AC6AFDZB
	19.0 [.748"]—	31.1 [1.224"]——		Gold Plated Contacts	AC6AFDZB-AU
			XLR 7 pole male, D Flange,	Standard	AC7MDZ
	19.0   [.748*]   2.7 [.1		Gold Plated Machined contacts, Nickel Finish	Vertical PCB	AC7MDZV
	220,1			Bulk Pack	AC7MDZ BULK
(Van	50.0ER 50.0ER 50.0ER 55.5 [ 32.1 [1		XLR 7 pole male, D Flange, Gold Plated Machined contacts,	Standard	AC7MDZB
			Black Finish	Vertical PCB	AC7MDZVB
(apst)			XLR 7 pole female, D Flange,	Standard	AC7FDZ
	p-26.0 [1.024"]-q pq-6.5 [.2	.56"]	Gold Plated Machined contacts, Nickel Finish	Vertical PCB	AC7FDZV
	FUSH 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Bulk Pack	AC7FDZ BULK
6		R CONTACTS PCB CONTACTS	XLR 7 pole female, D Flange, Gold Plated Machined contacts,	Standard	AC7FDZB
			Black Finish	Vertical PCB	AC7FDZVB

#### **AC/AX Series XLR Metal Chassis Mount Connectors**



#### 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 22 **Specifications: Page 28 PCB Footprints: Page 29** Panel Cutouts: Page 29

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	POLES	PART NUMBER
	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	2.4 [.094"]  SOLDER CONTACTS  32.1 [1.266"]	XLR male, Narrow flange, Machined contacts	3	AC3MMPNZ
			XLR male, Narrow flange,	3	AC3MPNZ
	[1.063"]		Stamped contacts,	4	AC4MPNZ
	27.0 [1.063"].	·		5	AC5MPNZ
		SOLDER CONTACTS		6	AC6AMPNZ
	-22.2 [.874"] <del>-</del>	32.1 [1.265"]		7	AC7MPNZ
	27.2 [1.070"]	SOLDER CONTACTS  31.5 [1.238"]	XLR male, Wide flange, Machined contacts	3	AC3MMP
	27.2 [1.070"]	2.4 [.094"]	XLR male, Wide flange, Stamped contacts	3	AC3MP
(E)	(1.039") → [1.445"] →			4	AC4MP
	26.4 [1.7]			5	AC5MP
2	AMPHENOL (1)	SOLDER CONTACTS		6	AC6AMP
Name of the last o	16.7 [.656"]	32.5 [1.278"]——		7	AC7MP
	27.2 [1.070"]	3.5 [.138"]	XLR female, Wide flange,	3	AC3FPZ
PUSI	[1.039"]		Stamped contacts	4	AC4FPZ
	26.4 [1:0			5	AC5FPZ
	AMPHENOL (1)	SOLDER CONTACTS		6	AC6AFPZ
	16.7 [.656"] 2.5 [.098"] 31.0 [1.220"]			7	AC7FPZ

<sup>\*</sup>Black finish available on special request please contact factory.

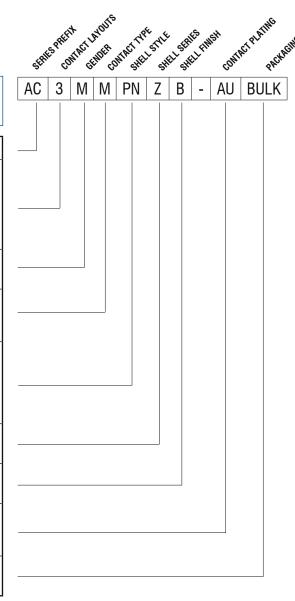
# PART NUMBER BREAKDOWN

## METAL TYPE FLANGE

#### E. G. AC3MMPNZVB-AU BULK

AC (Series Prefix), 3 contacts, Male, Machined Contacts, PN (Narrow Flange), Z (Metal Chassis Series), Black Polyester Finish, - AU (Gold Plated Contacts), Bulk Packaged.

SERIES PREFIX	AC	=	Series Prefix		
	3	=	3 Contacts		
	4	=	4 Contacts		
CONTACT LAYOUTS	5	=	5 Contacts		
	6A	=	6 Contacts		
	7	=	7 Contacts		
GENDER	F	=	Female Socket Contacts		
GENDEN	M	=	Male Pin Contacts		
MACHINED	Blank	=	Stamped Contacts		
CONTACTS1	M	=	Machined Contacts		
CONTINUIO	(Applicable 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		
SHEFT SEKIES	Z	=	Metal Chassis Series		
CHELL FINIOUS	Blank	=	Nickel Plated Finish		
SHELL FINISH <sup>2</sup>	В	=	Black Polyester Finish		
CONTACT PLATING <sup>3</sup>	Blank	=	Standard Plating (Silver or Tin - refer to Standard Data)		
	AU	=	Gold Plated		
DACKACING	Blank	=	Individual Bags		
PACKAGING	BULK	=	Bulk Packed		



#### Note:

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

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

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

<sup>&</sup>lt;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	Number of contacts	3	4	5	6A	7		
CHARACTERISTICS	Contact Arrangement (Front view of pin inserts)	1 e	(a) 4 (a) 6 (b) 6 (c) 1	1 5 2 3 4 4	01 6 5 02 3 4	1 7 6 2 3 5 3 4		
	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 CHARACTERISTICS	Service Voltage RMS			133V <sup>1)</sup>				
CHARACIERISTICS	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)	T		
MECHANICAL Characteristics	Weight - Metal <sup>2)</sup>	<b>31</b> g	32g	<b>33</b> g	<b>33</b> g	33g		
		(0.068lb)	(0.070lb)	(0.072lb)	(0.072lb)	(0.072lb)		
	Mechanical Operations			1000 mating cycle	es .			
MATERIALS	Connector Shell			Diecast Zinc Alloy	1			
	Shell Finish	Satin Nickel or Black Polyester						
	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	s / Silver or Gold (o	ptional)			
	Female Contact							
	Stamped Solder and PCB-(Material/Plating)		Phosphor	Bronze / Tin or Go	ld (optional)			
	Machined Solder-(Material/Plating)		Brass	/ Silver or Gold (0	ptional)			

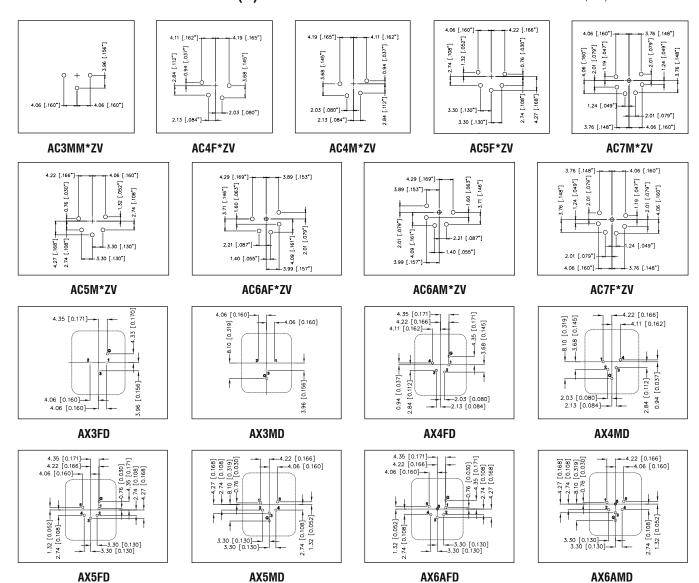
 $<sup>^{\</sup>mbox{\tiny 1)}}\mbox{Not}$  suitable for domestic applications above 50V

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

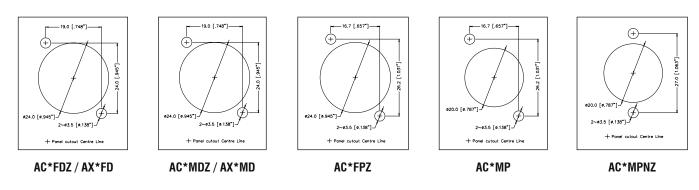
# AC / AX SERIES CHASSIS METAL "Z"

# PCB FOOTPRINTS STRAIGHT (V) CONNECTOR SIDE OF PCB

○ ø1.2mm(.05") + Panel Cutout CL



## PANEL CUTOUT DIMENSIONS FRONT VIEW



#### **XLR IP65 Connectors**



# **XLR IP65 CONNECTORS**

#### Features:

- IP65 Rated.
- Rear mounted thermoplastic shell housing aids in preassembly for PCB applications.
- Front mounted overmolded metal gasket sealing plate for superior panel sealing .
- · Solder Bucket connections.
- · Vertical or Horizontal PCB mounting.
- Available to suit three different panel thicknesses 1mm to 1.5mm, 1.5mm to 2mm, 2mm to 3mm
- · Leading first mate last break socket contact.
- · Positive latch lock system.
- · Protective sealing cap .

#### **Options:**

3, 4 or 5 contacts, Gold plated contacts, Solder buckets, Vertical or Horizontal PCB contacts

Part Number Breakdown: Page 34 Specifications: Page 35

PRODUCT - FIGURE	DRAWING	Dimensions	in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
1900 C7497) 3 28 CHO?? 1900 C	1500 (749°) = 28 (110°) 1665 (656°)			XLR 3 pole male chassis with protective cap , IP65, Solder bucket, Rear	Panel 1.0mm to 1.5mm	AXS3MP
	9.55 (3807)		7.1 - 66.6 (26.62)	mount	Panel 1.5mm to 2mm	AXS3MP1
	7.4 [291]	201 (.9091)		Panel 2mm to 3mm	AXS3MP2	
130 (253) 617 - (	26.0 (1.024*) 3.0 (1.16*) 19.00 (7.48*) 3.0 (1.16*) 19.00 (7.48*) 3.0 (1.16*) 19.00 (7.48*) 19.00 (7	47) 6.4 (252') 18.95 (746')		XLR 3 pole female chassis chassis with protective cap , IP65, Solder bucket, Rear	Panel 1.0mm to 1.5mm	AXS3FP
	4-SCEP / TAPPING	9.5 (380°) -16.7 (636°) -19.7 (.774°)		mount	Panel 1.5mm to 2mm	AXS3FP1
		7.4 (291')		Panel 2mm to 3mm	AXS3FP2	
26.0 (1.0247)  19.00 (7.497)  2.8 (1.007)  19.00 (7.497)  3.8 (1.007)  19.00 (7.497)  3.8 (1.007)  19.00 (7.497	DKNESS	XLR 3 pole male chassis with protective cap , IP65, Horizontal PCB, Rear	Panel 1.0mm to 1.5mm	AXS3MPH		
			(4.6 to 10.00 to 10.0	mount	Panel 1.5mm to 2mm	AXS3MP1H
	1000				Panel 2mm to 3mm	AXS3MP2H

## **XLR IP65 Connectors**

PRODUCT - FIGURE	DRAWING	Dimensio	ns in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	26.0 (1.0247) 3.0 (1.167) 12.78 ECOMPOND PANEL, THICKNESS 15.0747 15.0 (1.7497) 15.0 (1.7497) 18.75 (1.7497) 18	THICKNESS	XLR 3 pole female chassis chassis with protective cap , IP65, Horizontal PCB, Rear	Panel 1.0mm to 1.5mm	AXS3FPH	
	C. C. S.	04 (106') -04 (106') -05 (36') -06 (390') -139 (545') -207 (813')	.00 (L0397)	mount	Panel 1.5mm to 2mm	AXS3FP1H
	(a) 1	-20.7 (813°)- -7.4 [291°]	Nousedary %		Panel 2mm to 3mm	AXS3FP2H
	26.0 (1.0247) 2.0 (1.107) - 15.0 (1.0247) 3.5 (2.747) 4.5 (2.747)	1/2/3 RECOMMEND PANEL	THICKNESS	XLR 3 pole male chassis with protective cap , IP65, Vertical PCB, Rear	Panel 1.0mm to 1.5mm	AXS3MPV
	4-SEV-TAPPING  3.6 CL427  3.6 CL427  3.6 CL427  3.7 SEV-TAPPING	7. - ec te te cevi	mount	Panel 1.5mm to 2mm	AXS3MP1V	
	1919 1919	7.4 [291]	Figure 1		Panel 2mm to 3mm	AXS3MP2V
	1900 (749) 5 33 (1167) 140 (2597) 1895 (1 1900 (749) 5 33 (1167) 140 (2597) 1895 (1 1900 (749) 140 (149)		COMMEND PANEL THICKNESS  18.95 C746*1  18.95	XLR 3 pole female chassis chassis with protective cap , IP65, Vertical PCB, Rear mount	Panel 1.0mm to 1.5mm	AXS3FPV
		16.7 [ 656*]			Panel 1.5mm to 2mm	AXS3FP1V
		2 (9517)			Panel 2mm to 3mm	AXS3FP2V
	28 C197 1 16.5 L5.647 1 16.5 L	THICKNESS	XLR 4 pole male chassis with protective cap , IP65, Solder bucket, Rear mount	Panel 1.0mm to 1.5mm	AXS4MP	
		10 C C C C C C C C C C C C C C C C C C C		Panel 1.5mm to 2mm	AXS4MP1	
	10000	7.4 (291')	90000000000000000000000000000000000000		Panel 2mm to 3mm	AXS4MP2
	1900 (7497) = 5 30 (1697)	1/2/3 RECOMMEND PANEL		XLR 4 pole female chassis chassis with protective cap , IP65, Solder bucket, Rear mount	Panel 1.0mm to 1.5mm	AXS4FP
		965 (380°) -16.7 (656°) -19.7 (774°)			Panel 1.5mm to 2mm	AXS4FP1
	SELF-TAPPING 1-19.7 (774:)  -7.4 [29!7]		poueday 8		Panel 2mm to 3mm	AXS4FP2

## **XLR IP65 Connectors**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	28 (110°) 100 (7/40°) 25 (1374°) 28 (110°) 1665 (656°) 29 29 29 29 29 29 29 29 29 29 29 29 29		XLR 4 pole male chassis with protective cap , IP65, Horizontal PCB, Rear	Panel 1.0mm to 1.5mm	AXS4MPH
	4-SZEV VAPPING	5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	mount	Panel 1.5mm to 2mm	AXS4MP1H
		9. (2637) 39. (7		Panel 2mm to 3mm	AXS4MP2H
	26.0 (1.024°) 30 (1.16°) - 2.0 (1.024°) 30 (1.16°) - 2.0 (1.024°) 30 (1.16°) - 2.0 (1.024°) 30 (1.16°) - 2.0 (1.024°) 30 (1.16°) - 2.0 (1.024°) 30 (1.16°) - 2.0 (1.024°) 30 (1.16°) - 2.0 (1.024°) 30 (1.16°) - 2.0 (1.024°) 30 (1.16°) - 2.0 (1.024°) 30 (1.16°) - 2.0 (1.024°) 30 (1.16°) - 2.0 (1.024°) 30 (1.16°) - 2.0 (1.024°) 30 (1.16°) - 2.0 (1.024°) 30 (1.16°) - 2.0 (1.024°) 30 (1.16°) - 2.0 (1.024°) 30 (1.16°) - 2.0 (1.024°) 30 (1.16°) - 2.0 (1.024°) 30 (1.16°) - 2.0 (1.024°) 30 (1.16°) - 2.0 (1.024°) 30	1/2/3 RECOMMEND PANEL THICKNESS	XLR 4 pole female chassis chassis with protective cap , IP65, Horizontal PCB, Rear	Panel 1.0mm to 1.5mm	AXS4FPH
	1. L. G.	-04 (106°) -1 (1	mount	Panel 1.5mm to 2mm	AXS4FP1H
	169 L662 169 L662 169 L662 174 L6911	S.Dc-91		Panel 2mm to 3mm	AXS4FP2H
	25.3 (18247) 2.8 (1107) 16.65 (65547) 16.65	1/2/3 RECOMEND PANEL THICKNESS	XLR 4 pole male chassis with protective cap , IP65, Vertical PCB, Rear	Panel 1.0mm to 1.5mm	AXS4MPV
		965 (3807)	mount	Panel 1.5mm to 2mm	AXS4MP1V
		Superior Sup		Panel 2mm to 3mm	AXS4MP2V
	26.0 (1.024°) 3.0 (1.16°) 1.00 (7.48°) 3.0 (1.16°) 1.00 (7.48°) 3.0 (1.16°) 1.00 (7.48°) 1.00 (7	1/2/3 RECOMMEND PANEL THICKNESS 1/282*) 189 (746*)	XLR 4 pole female chassis chassis with protective cap , IP65, Vertical PCB, Rear	Panel 1.0mm to 1.5mm	AXS4FPV
	35 L189'1  35 L189'1  36 L189'1  37 L289'1	35 (1397) - 465 (13997)	mount	Panel 1.5mm to 2mm	AXS4FP1V
		12 (95)1 — 15.7 (556°)  (12 (95)1) — 15.7 (556°)  (13 (95)1) — 15.7 (556°)		Panel 2mm to 3mm	AXS4FP2V
		1/2/3 RECOMMEND PANEL THICKNESS	XLR 5 pole male chassis with protective cap , IP65, Solder bucket, Rear	Panel 1.0mm to 1.5mm	AXS5MP
	1 SELF-TAPPING	965 (380°) B22 (472°) ++	mount	Panel 1.5mm to 2mm	AXS5MP1
	1:59	(congday) 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		Panel 2mm to 3mm	AXS5MP2

## **XLR IP65 Connectors**

PRODUCT - FIGURE	DRAWING	Dimensions in n	nm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
(61)	26.0 LL02477 3.0 CL16477 16.27 RECOMMEND PANEL THICKNESS 1.0 CL16479 16.2 CETACO 16.2 CETA		:s	XLR 5 pole female chassis chassis with protective cap , IP65, Solder bucket, Rear	Panel 1.0mm to 1.5mm	AXS5FP
2531 0.1E →	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9.6 (380°) 7.7 (656°) 19.7 (774°)	7.7 -67.0 [2.6387]	mount	Panel 1.5mm to 2mm	AXS5FP1
	1,0990	B (591.)	oueudury % % % % % % % % % % % % % % % % % % %		Panel 2mm to 3mm	AXS5FP2
	26.0 (1.0247) 29. (1.107) 19. (1.0747) 29. (1.107) 19. (1.0747) 29. (1.107) 19. (1.0747) 29. (1.	1/2/3 RECOMMEND PANEL THICKNES	55	XLR 5 pole male chassis with protective cap , IP65, Horizontal PCB, Rear	Panel 1.0mm to 1.5mm	AXS5MPH
1	965 (390°) 1.00 (039°)	666 [26207]	mount	Panel 1.5mm to 2mm	AXS5MP1H	
	3.1 (909')		Panel 2mm to 3mm	AXS5MP2H		
	1900 C/46*7 35 30 CH6*7 64 L252*7 18.95 C/46*7 18.95 C/46*	1/2/3 RECOMMEND PANEL THICKNES	:5	XLR 5 pole female chassis chassis with protective cap , IP65, Horizontal PCB, Rear	Panel 1.0mm to 1.5mm	AXS5FPH
		64 (380°) 1.00 (0.09°)	A.DrII	mount	Panel 1.5mm to 2mm	AXS5FP1H
					Panel 2mm to 3mm	AXS5FP2H
	19.00 (748°) + 9.5 (374°) + 9.5 (374°) + 9.5 (374°)	1/2/3 RECOMMEND PANEL THICKNES	HICKNESS	XLR 5 pole male chassis with protective cap , IP65, Vertical PCB, Rear	Panel 1.0mm to 1.5mm	AXS5MPV
	310 II	3 5.65 (380°) 3 5.65 (142°) 3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	666 [26207]	mount	Panel 1.5mm to 2mm	AXS5MP1V
	1.5993		(STD-48) 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		Panel 2mm to 3mm	AXS5MP2V
	26.0 (1.884*) 3.9 (1.16*) 19.00 (7.48*) 3.9 (1.16*) 19.00 (7.48*) 3.9 (1.16*) 19.00 (7.48*) 3.9 (1.16*) 19.00 (7.48*) 3.9 (1.16*) 19.00 (7.48*) 3.9 (1.16*) 19.00 (7.48*)			XLR 5 pole female chassis chassis with protective cap , IP65, Vertical PCB, Rear	Panel 1.0mm to 1.5mm	AXS5FPV
		17-1	mount	Panel 1.5mm to 2mm	AXS5FP1V	
	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	242 (991) 10.7 (596) 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			Panel 2mm to 3mm	AXS5FP2V

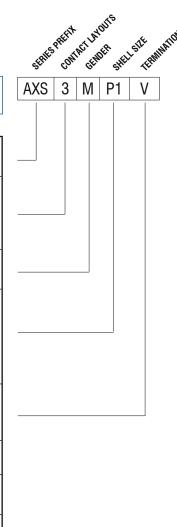
# PART NUMBER BREAKDOWN

## **CHASSIS CONNECTORS**

E. G. AXS3MP1V

AXS (Series Prefix), 3 contacts, Male, P1 (Thermoplastic 1.5mm to 2mm (Rear Mounting), V (Vertical Mount- PCB Thru Hole)

SERIES PREFIX	AXS	=	Sealed IP65 with cap
OLINES I NEI IX	AXP	=	Sealed IP65 no cap
	3	=	3 Contacts
CONTACT LAYOUTS	4	=	4 Contacts
CONTACT LATOUTS	5	=	5 Contacts
	6A	=	6 Contacts
GENDER	F	=	Socket receptacle housing
GENDEN	M	=	Pin plug housing
	Р	=	Thermoplastic 1mm to 1.5mm (Rear Mounting)
SHELL SIZE	P1	=	Thermoplastic 1.5mm to 2mm (Rear Mounting)
	P2	=	Thermoplastic 2mm to 3mm (Rear Mounting)
	Blank	=	Solder buckets
TERMINATION	Н	=	Horizontal Mount (PCB thru hole)
	V	=	Vertical Mount (PCB thru hole)
SHELL MATERIAL / FINISH	Thermoplastic Black		
CONTACT DI ATINO	Blank	=	Standard
CONTACT PLATING	AU	=	Gold plated
DAOMAGINO	Blank	=	Individual Bags
PACKAGING	BULK	=	Bulk Packed



# **STANDARD DATA AX SERIES CHASSIS - IP65**

			VAI	LUE			
GENERAL CHARACTERISTICS	Number of contacts	3	4	5	6A Available		
CHANACTERISTICS	Contact Arrangement (Front view of pin inserts)		1 4 0 3 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 3 4	0 6 5 0 3 4		
	Termination		Solder Bucket / Printe	d 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		
	Flammability rating of plastics & rubber		UL9	4V-0			
	Environmental	(	Complies with EU RoHS	2 Directive 2011/65/EU	J		
ELECTRICAL CHARACTERISTICS	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		
	Typical Contact Resistance		≤3	mΩ			
	Insulation Resistance		≥100	00MΩ			
CLIMATIC	Protection Class		IP	65			
CHARACTERISTICS	Operating Temperature		-25°C to +75°C	(-13°F to +167°F)			
MECHANICAL CHARACTERISTICS	Weight 2)	31g (0.068lb)	32g (0.070lb)	33g (0.072lb)	33g (0.072lb)		
	Mechanical Operations		1000 mat	ing cycles			
MATERIALS	Connector Flange Finish	Rubber Black / Stainless Steel					
	Insulators	PA66 30% Glass Filled Resin					
	Male Contact Machined Solder and PCB-(Material/Plating)	Brass / Tin or Gold (Optional)					
	Female Contact Machined Solder and PCB-(Material/Plating)	Brass / Tin or Gold (Optional)					

<sup>&</sup>lt;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.

XLRnet IP65 Range



# **XLRNET IP65 RANGE**

Part Number Breakdown: Page 39

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
100000	26.0 (1.024*)————————————————————————————————————	24.0 [.945*]	XLRnet chassis, CAT5E with protective	Panel 1.2m to 2.5mm	RJXS8FP5H
			cap, IP65, Horizontal PCB, Rear mount	Panel 1.2mm to 2.5mm, Potted	RJXS8FP5HP
				Panel 2.5mm to 3.8mm	RJXS8FP15H
		PANEL		Panel 2.5mm to 3.8mm, Potted	RJXS8FP15HP
				Panel 3.8mm to 5mm	RJXS8FP25H
				Panel 3.8mm to 5mm, Potted	RJXS8FP25HP
	26.0 [1.024*]— 10.1 [.398*]— 19.0 [.748*]— 6.9 [.272*]—	24.0 [.945*]	XLRnet chassis, CAT6 with protective cap,	Panel 1.2m to 2.5mm	RJXS8FP6H
	PURRO ( 1.022 16		IP65, Horizontal PCB, Rear mount	Panel 1.2mm to 2.5mm, Potted	RJXS8FP6HP
0.450			Panel 2.5mm to 3.8mm	RJXS8FP16H	
	PANEL		Panel 2.5mm to 3.8mm, Potted	RJXS8FP16HP	
			Panel 3.8mm to 5mm	RJXS8FP26H	
				Panel 3.8mm to 5mm, Potted	RJXS8FP26HP
		101 (3981) 6.9 (2721) 7 (200 (8191)	XLRnet chassis, CAT5E with protective cap, IP65, Shielded Hood,Horizontal PCB,	Panel 1.2m to 2.5mm	RJXS8FP5HE
	Authors 1 1 1 2 9 5 7 1 1 1 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1			Panel 1.2mm to 2.5mm, Potted	RJXS8FP5HPE
	4 d d d d d d d d d d d d d d d d d d d	36 1.14	Rear mount	Panel 2.5mm to 3.8mm	RJXS8FP15HE
		PANEL		Panel 2.5mm to 3.8mm, Potted	RJXS8FP15HPE
				Panel 3.8mm to 5mm	RJXS8FP25HE
				Panel 3.8mm to 5mm, Potted	RJXS8FP25HPE
	26.0 (1.024') 19.0 (.748')	10.1 [.398*] 6.9 [.272*]	XLRnet chassis, CAT6 with protective	Panel 1.2m to 2.5mm	RJXS8FP6HE
	11. 12. 12. 13. 14. 14. 14. 14. 14. 14. 14. 14. 14. 14	[245]	cap, IP65, Shielded Hood,Horizontal PCB,	Panel 1.2mm to 2.5mm, Potted	RJXS8FP6HPE
	240 F.2		Rear mount	Panel 2.5mm to 3.8mm	RJXS8FP16HE
		PANEL		Panel 2.5mm to 3.8mm, Potted	RJXS8FP16HPE
				Panel 3.8mm to 5mm	RJXS8FP26HE
				Panel 3.8mm to 5mm, Potted	RJXS8FP26HPE

### XLRnet IP65 Range

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
naho	-26.0 [L024']	24.0 [.945']-	XLRnet chassis, CAT5E with protective	Panel 1.2m to 2.5mm	RJXS8FP5V
1923	PUBM - 1.0221		cap, IP65, Vertical PCB, Rear mount	Panel 1.2mm to 2.5mm, Potted	RJXS8FP5VP
	9310 16		,	Panel 2.5mm to 3.8mm	RJXS8FP15V
		PANEL		Panel 2.5mm to 3.8mm, Potted	RJXS8FP15VP
				Panel 3.8mm to 5mm	RJXS8FP25V
				Panel 3.8mm to 5mm, Potted	RJXS8FP25VP
2000	26.0 [1.024*]— 10.1 [.398*]— 19.0 [.748*]— 6.9 [.272*]	24.0 [.945*]	XLRnet chassis, CAT6 with protective cap,	Panel 1.2m to 2.5mm	RJXS8FP6V
125	Miller (1894) (1894) (1894) (1894) (1894) (1894) - (189		IP65, Vertical PCB, Rear mount	Panel 1.2mm to 2.5mm, Potted	RJXS8FP6VP
	10 1720			Panel 2.5mm to 3.8mm	RJXS8FP16V
		PANEL		Panel 2.5mm to 3.8mm, Potted	RJXS8FP16VP
				Panel 3.8mm to 5mm	RJXS8FP26V
				Panel 3.8mm to 5mm, Potted	RJXS8FP26VP
2000-	26.0 [1.024*] 10.1 [.5 6.9 [.5	2987)	XLRnet chassis, CAT5E with protective cap, IP65, Shielded Hood,Vertical PCB, Rear mount	Panel 1.2m to 2.5mm	RJXS8FP5VE
123	11.22071			Panel 1.2mm to 2.5mm, Potted	RJXS8FP5VPE
	31:0			Panel 2.5mm to 3.8mm	RJXS8FP15VE
		PANEL		Panel 2.5mm to 3.8mm, Potted	RJXS8FP15VPE
				Panel 3.8mm to 5mm	RJXS8FP25VE
				Panel 3.8mm to 5mm, Potted	RJXS8FP25VPE
2000	26.0 [1.024*] 10.1 [.5 6.9 [2	998'] —— 24.0 [.945'] —— III	XLRnet chassis, CAT6 with protective	Panel 1.2m to 2.5mm	RJXS8FP6VE
123	1.1220'J-		cap, IP65, Shielded Hood,Vertical PCB,	Panel 1.2mm to 2.5mm, Potted	RJXS8FP6VPE
	24.0		Rear mount	Panel 2.5mm to 3.8mm	RJXS8FP16VE
		PANEL		Panel 2.5mm to 3.8mm, Potted	RJXS8FP16VPE
				Panel 3.8mm to 5mm	RJXS8FP26VE
				Panel 3.8mm to 5mm, Potted	RJXS8FP26VPE

### XLRnet IP65 Range

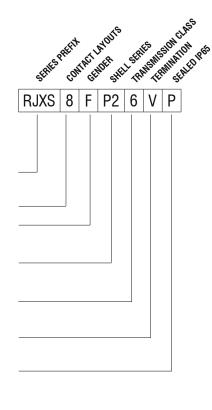
PRODUCT - FIGURE	DRAWING Dimensions in mm (	nches) DESCRIPTION	VARIATIONS	PART NUMBER
		XLRnet cable plug housing to suit preassembled RJ45 ethernet cables	Nickel finish	RJXS8M
			Black finish	RJXS8MB
		XLRnet cable plug cap assembly to suit RJX	Brown I.D. ring	RJXS-CAPC-1
		series XLRnet cable plugs with coloured	Red I.D. ring	RJXS-CAPC-2
	و و	I.D. ring	Orange I.D. ring	RJXS-CAPC-3
			Yellow I.D. ring	RJXS-CAPC-4
			Green I.D. ring	RJXS-CAPC-5
			Blue I.D. ring	RJXS-CAPC-6
			Violet I.D. ring	RJXS-CAPC-7
			Grey I.D. ring	RJXS-CAPC-8
			White I.D. ring	RJXS-CAPC-9

## **PANEL**

### E. G. RJXS8FP26VP

RJXS (Series Prefix), 8 RJ45 Style, **F** (Four hole receptacle housing IP65 - Black - Rear Mounting), **P2** (Thermoplastic 3.8mm to 5mm with cap (Rear Mounting), **6** Cat6 Compliant, **V** Vertical Mount (PCB Thru Hole), **P** Potted (IP65 unmated)

	RJX	=	Standard
SERIES PREFIX	RJXS	=	Sealed IP54 or IP65
	RJXP	=	Sealed IP65 without cap
CONTACT LAYOUTS	8	=	RJ45 Style
GENDER	F	=	Receptacle Housing
	Р	=	Thermoplastic 1.2mm-2.5mm (Rear mounting IP65)
SHELL SERIES	P1	=	Thermoplastic 2.5mm to 3.8 mm with cap (Rear mounting IP65)
	P2	=	Thermoplastic 3.8mm to 5 mm with cap (Rear mounting)
TRANSMISSION	5	=	Cat5e Compliant
CLASS	6	=	Cat6 Compliant
TERMINATION	Н	=	Horizontal Mount (PCB Thru hole)
TENMINATION	V	=	Vertical Mount (PCB Thru hole)
SEALED IP65 (RJXX)	Р	=	Potted (IP65 unmated)
LOCKING	Blank	=	Latching
MECHANISM	Р	=	Push lever supplied seperately for customer installation.
PACKAGING	Blank	=	Individual Bags
FACKAGING	В	=	Bulk Packed



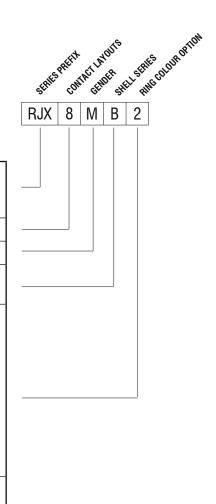
XLRnet IP65 Range

# PART NUMBER BREAKDOWN

## PLUG CONNECTORS

E. G . RJX8MB2 RJX (Series Prefix), 8 RJ45 style, M Plug Housing, Black Finish, 2 Red Ring Colour Option

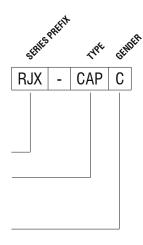
	RJX	=	Standard
SERIES PREFIX	RJXS	=	Sealed IP65 with cap
	RJXP	=	Sealed IP65 without cap
CONTACT LAYOUTS	8	=	RJ45 style
GENDER	М	=	Plug Housing
CHELL CEDIES	Blank	=	Nickel plated finish
SHELL SERIES	В	=	Black finish
	Blank	=	Black
	1	=	Brown
	2	=	Red
	3	=	Orange
RING COLOUR	4	=	Yellow
OPTION	5	=	Green
	6	=	Blue
	7	=	Violet
	8	=	Grey
	9	=	White
DVCKVCING	Blank	=	Individual Bags
PACKAGING	BULK	=	Bulk Packed



## PROTECTIVE CAP

E. G. RJX-CAPC RJX (Series Prefix), CAP Type, C Cable Plug male

CEDIES DDEELA	RJX	=	Standard
SERIES PREFIX	RJXS	=	Sealed IP54 or IP65
TYPE	CAP		
	F	=	Female panel
SHELL SERIES	М	=	Male Panel (Not available)
SHELL SENIES	С	=	Cable Plug male
	D	=	Cable Plug female
	Blank	=	Black
	1	=	Brown
	2	=	Red
	3	=	Orange
RING COLOUR	4	=	Yellow
OPTION	5	=	Green
	6	=	Blue
	7	=	Violet
	8	=	Grey
	9	=	White
OPTION	Blank	=	Lanyard
DACKACINO	Blank	=	Individual Bags
PACKAGING	BULK	=	Bulk Packed



# STANDARD DATA XLRnet IP65 CHASSIS RECEPTACLES

			VALUE					
		Class D	CAT5E	CAT6				
GENERAL	Number of contacts		8					
CHARACTERISTICS	Contact Arrangement		RJ45					
	Termination	Printed Circuit Bo	Printed Circuit Board (PCB) - through hole, Feedthrough, IDC Terminal					
	Flammability		UL94V-0					
	Environmental	Comp	lies with EU RoHS 2 Directive 2011/6	5/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	100MHz	250MHz				
	Ethernet Standard	10/100 BASE-T	1000 BASE-T	10GBASE-T				
	Transmission Spec.	EIA	/ TIA568-C.2, ISO/IEC 11801, EN501	73				
	PoE	802.3at Type 2	Types 1 to 4 and IEC6	60603-7 compliant				
	LED Type		Round, single pole, indicator					
CLIMATIC	Protection Class - RJX		IP40 (with EMI/RFI shield)					
CHARACTERISTICS	- RJXS		IP54 (non potted) IP65 (potted)					
	Operating Temperature		-40°C to +80°C (-40°F to +176°F)					
MECHANICAL	Weight** - A & B Housing - Shielded Housing		11g (0.024lb) 17g (0.037lb)					
CHARACTERISTICS	- D Shell		25g (0.055lb)					
	Mechanical Operations		1000					
	Insertion and Withdrawal Force		≤ 21N					
	Latch		Spring Steel					
	Panel Thickness max.	RJXS series panel thickn	ess variable, three groups: S: 1.2-2.5	, M: 2.5-3.5, L: 3.8-5.0				
	Mounting screw torque max.		0.35Nm					
	Fastener		Self-Tapping screw M2.5					
MATERIALS	Connector Shell / Housing		PA66-R10G251(fff)(f1)					
			KINGFA SCI&TECH, E171666					
	Front Panel Gasket		121-80 SANTOPRENE					
	Potting Compound		AW8829 RESIN GLUE					
	Contact		Phosphor Bronze					
	Contact Finish - Ground		0.38μm Au over 1.27μm Ni					
	- RJ45		1.27μm Au over 1.27μm Ni					
	Metal Hood Shield EMI/RFI	BRASS	UNS #26800 PRE-PLATED 0.25mn	1 THK				
	Latch lock and Spring		CARBON STEEL SAE 1055					
PANEL THICKNESS	Option "P" Option "P1"		1.5mm - 2.5mm (0.059" - 0.098")					
	Option "P2"		2.5mm - 3.5mm (0.098" - 0.137") 3.8mm - 5mm (0.149" - 0.196")					

 $<sup>{\</sup>bf **Approximate\ weight\ in\ grams\ not\ including\ packaging.\ Please\ contact\ us\ for\ exact\ weight\ for\ shipping\ purposes.}$ 



# AC SERIES XLR PCB CHASSIS MOUNT CONNECTORS

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 flexibility in design.

### **Features**

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

# 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.

### **AC Series XLR PCB Chassis Mount Connectors**



# **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 51 Specifications: Page 54
PCB Footprints: Page 55 Panel Cutouts: Page 56

**Recommended Fastener: Page 152** 

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	GROUND LINK VARIATIONS	PART NUMBER
	25.4 [.998"]  Ampheno  1 3 2  2.7  [.106"]	-19.5 [.768"] -19.8 [.780"] -19.8 [.780"] -19.8 [.780"] -19.8 [.780"] -19.8 [.780"]	XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3MAH-AU-PRE
	25.4 [.998*]    Mapheno   1 3 2   2.7   1.106*]	-19.5 [.768*]19.8 [.780*]	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*]    Mapping   Ampheno   1 3 2   2.7   1.106*]	-19.5 [.768*] -19.8 [.780*] -19.8 [.780*] -19.8 [.780*] -19.8 [.780*]	XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground	AC3MAH2-AU-PRE
	25.4 [.998*] 	19.5 [.768"]	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"]  Ampheno  2,7  [106]	24.0 [.945"] 19.5 [.768"] 19.5 [.768"]	XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3MAV-AU-PRE

### **AC Series XLR PCB Chassis Mount Connectors**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	GROUND LINK VARIATIONS	PART NUMBER
	25.4 [998] (Minpheno) V V (13 2) 2.77 (100	24.0 [945] 19.5 [788] 19.5 [788] 19.5 [788]	XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground	AC3MAV2-AU-PRE
	25.4 [.998]	-24.0 [.945] 19.5 [.768] 19.5 [.768]	XLR 3 pole male, Solder Buckets, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3MA-AU-B
	25.4 [998*]  (PUSH)  (	5.2 (126°) 19.5 (.766°) 19.5 (.766°) 19.5 (.766°)	XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAH-AU-PRE
	25.4 [998*]  (PUSH)  (	5.2 [126*] 19.5 [.766*] 19.5 [.766*] 19.5 [.766*]	XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to Mating connector shell	AC3FAH1-AU-PRE
	25.4 [998*]  (PUSH)  (	5.2 (126°) 19.5 [.766°) 19.5 [.766°]	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
	25.4 [.996"]    1	19.5 [.766*]	XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAHL-AU-PRE
	25.4 [.998"]    1	19.5 [.766*] 19.5 [.766*] 19.5 [.766*] 19.5 [.766*] 19.5 [.760*]	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
	25.4 [.998*]    January	19.5 [.766*]	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
	25.3 [.996"]  (PUSH)  (Amphero)  (2.6)  (102"]	3.2 [.126*] -19.5 [.768*] -19.5 [.768*] -24.0 [.945*]	XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAV-AU-PRE
	25.3 [.998"]  (PUSH)  (Apphroximation of the control of the contro	3.2 [.126*] 19.5 [.768*] 3.5 [.138*]	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 XLR PCB Chassis Mount Connectors**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	GROUND LINK VARIATIONS	PART NUMBER
O	25.3 [998"]  (PUSH)  (	3.2 [126"] 19.5 [768"] 19.5 [768"] 19.5 [798"] 19.5 [798"] 19.5 [798"] 19.5 [798"] 19.5 [798"] 19.5 [798"] 19.5 [798"] 19.5 [798"]	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
0	25.3 [.998*]  -25.3 [.998*]  -25.3 [.998*]  -25.3 [.998*]  -25.3 [.998*]  -25.3 [.998*]  -25.3 [.998*]  -25.3 [.998*]  -25.3 [.998*]	19.5 [.768"] 19.5 [.768"] 19.5 [.768"] 19.5 [.798"] 19.5 [.798"] 19.6 [.779"] 19.6 [.779"] 19.6 [.779"]	XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAVL-AU-PRE
10	25.3 [998"]  -25.3 [998"]  -25.3 [998"]  -25.3 [998"]  -25.3 [998"]  -25.3 [998"]  -25.3 [998"]  -25.3 [998"]	19.5 [.768*] 19.5 [.768*] 19.5 [.768*] 19.5 [.768*] 19.5 [.768*] 19.5 [.768*]	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"]———————————————————————————————————	19.5 [.768*] 19.5 [.768*] 19.5 [.779*] 19.6 [.779*] 19.6 [.779*] 19.7 [.779*] 19.8 [.779*] 19.8 [.779*]	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
	25.0 [.984"]  Amphanol ()  (Y   V   V ) 2.7  [.106"]	19.5 [.766"] - 19.8 [.780"] - 19.8 [	XLR 4 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground	AC4MAH-AU-B
	19.8 [.7807]	25 [984*] 	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
	19.8 [.750*]	24 [945"] 25 [984"] 25 [984"] 27 [98	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
	19.8. [780]	3.2 [.125*] 19.5 [.768*] 19.5 [.768*] 19.5 [.768*] 19.5 [.768*]	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
	19.8 [.780]	5.2 [125] 19.5 [768] 19.5 [768] 19.5 [768] 19.5 [768] 19.5 [768] 19.5 [768] 19.5 [768] 19.5 [768]	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 XLR PCB Chassis Mount Connectors**



# **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 51 Specifications: Page 54 PCB Footprints: Page 55 Panel Cutouts: Page 56 Recommended Fastener: Page 152

			Recommended Fast		
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION/ GROUND LINK	MOUNTING FLANGE VARIATIONS	PART NUMBER
	25.3 [.996*] 27. [.106*]	19.8 [.780°] 19.8 [.780°] 10.8 [.780°]	XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3MBH-AU-PRE
	25.3 [996"] 19.5 [76"]	19.8 [.780]	XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis to Mating connector shell	Nickel Finish	AC3MBH1-AU-PRE
	25.3 [996"] 	19.8 [.780]	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
	2.7 [.106*]	19.8 [780]	XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack Mating connector shell to Pin 1	Nickel Finish	AC3MBH3-AU-PRE
	25.3 [ 996"] 19.5 [ 7	19.8 (780°)	XLR 3 pole male, Horizontal PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3MBHL-AU-PRE
	25.3 (996")	[.945] [.	XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3MBV-AU-PRE

### **AC Series XLR PCB Chassis Mount Connectors**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION/ GROUND LINK	MOUNTING FLANGE VARIATIONS	PART NUMBER
	26.5 [.996"]———————————————————————————————————	19.8 [780]	XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis to Mating connector shell	Nickel Finish	AC3MBV1-AU-PRE
	20 [395] 19.5 [760] 27 [106] 27 [106]	19.8 [.780]	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
	25.3 [996*] - 25.5 [996*] - 25		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"]	9.8 [.780]	XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3FBH-AU-PRE
	25.3 [ 996"] 10 [118"] 10	9.8 (780")	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
	25.5 [.996"] -10.5 [.168"] -10.5 [.768"] -10	19.8 [.780]	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 [.996"] -3.0 [.118"] -19.5 [.766"] -19.	19.8 [.780]	XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis	Nickel Finish	AC3FBH3-AU-PRE
	25.3 [996*] 	19.8 [.780]	XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3FBHL-AU-PRE

### **AC Series XLR PCB Chassis Mount Connectors**

PRODUCT	DRAWING Dimensions in mm (inches)	DESCRIPTION/ GROUND LINK	FINISH	PART NUMBER
	25.5 [396"] 27 [106"] 2.7 [106"]	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
	22.4 [882]	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
	27 [106*]- 27 [106*]-	XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack Pin 1 to Chassis	Nickel Finish	AC3FBHL3-AU-PRE
	25.3 [.996"] ————————————————————————————————————	XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3FBV-AU-PRE
	25.5 [196"]	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
	25.5 [986"] — 3.0 [118"] — 3.0 [118"] — 3.0 [118"] — 3.5 [138"] — 3.5	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
	25.5 [996"] — — — — — — — — — — — — — — — — — — —	XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis	Nickel Finish	AC3FBV3-AU-PRE
	25.5 [996"] 27. [106"] 27. [106"] 27. [106"]	XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3FBVL-AU-PRE

### **AC Series XLR PCB Chassis Mount Connectors**

PRODUCT	DRAWING Dimensions in mm (inches)	DESCRIPTION/ GROUND LINK	FINISH	PART NUMBER
	25.3 [.96°] — 24.0 [.945°] — 19.8 [.780°] — 26.0 [.945°] — 27. [.106°] — 3.5 [.140°] —	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
	25.3 [.996*] 24.0 [.945*] 24.0 [.945*] 25.3 [.996*] 24.0 [.945*] 25.3 [.996*] 26.0 [.980*] 27. [.106*] 27. [.106*]	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
	25.3 [.96*] 3.7 [.165*] 2.7 [.106*]	XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis	Nickel Finish	AC3FBVL3-AU-PRE
Pusit	3.2 [.125"] 25 [.984"]	XLR 5 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Nickel Finish	AC5FBH-AU-PRE
	3.2 [.125"]	XLR 5 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Nickel Finish	AC5FBV-AU-PRE
10	19.8 [.780"]————————————————————————————————————	XLR 5 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Nickel Finish	AC5MBH-AU-PRE
	19.8 [.780"] — 24 [.945"] — 25 [.984"] — 25 [.984"] — 27.5 [1.083"] — 27.5 [1.083"] — 27.7 [.106"]	XLR 5 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	Nickel Finish	AC5MBV-AU-PRE

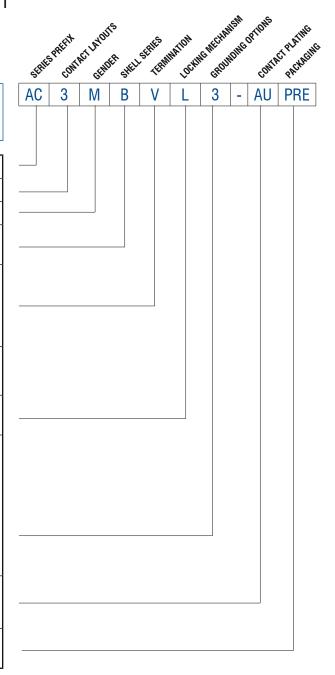
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AC SERIES A AND B TYPE MALE - 3 CONTACT

### 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	M	=	Male Socket Contacts
SHELL SERIES	А	=	A Type
STILLE SETTILS	В	=	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	2	=	Mating Connector shell to Chassis, Pin 1 to separate ground
UPTIONS	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)
DACKACING	PRE	=	Bulk Packed
PACKAGING	PRD	=	Disassembled push latch

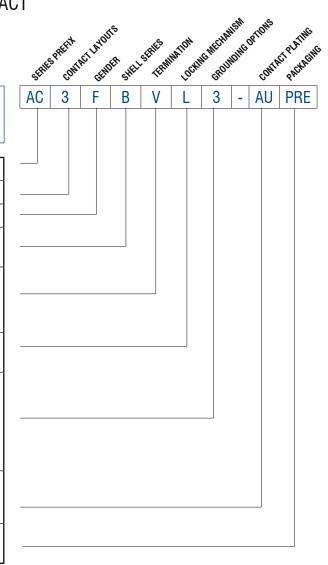


AC SERIES A AND B TYPE FEMALE - 3 CONTACT

#### E. G. AC3MAVL3-AU B

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

SERIES PREFIX	AC	=	Series Prefix
CONTACT LAYOUT	3	=	3 Contact only
GENDER	F	=	Female Socket Contacts
SHELL SERIES	Α	=	A Type
OTTLLE OF THE	В	=	B Type
	Н	=	Horizontal Printed Circuit Board
TERMINATION	V	=	Vertical Printed Circuit Board
LOCKING	Blank	=	Latching
MECHANISM	L	=	Latchless
	Blank	=	No Ground Link
GROUNDING LINK	1	=	Pin 1 to Chassis to mating connector shell
OPTIONS	2	=	Mating Connector shell to Chassis, Pin 1 to separate ground
	3	=	Pin 1 to Chassis
	AU	=	Gold Plated Contacts
CONTACT PLATING	AG	=	Silver Plated Contacts
			(Non-Standard)
PACKAGING	PRE	=	Bulk Packed
I AURAUNU	PRD	=	Disassembled push latch

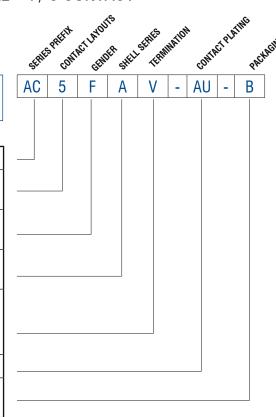


AC SERIES A AND B TYPE MALE AND FEMALE - 4 / 5 CONTACT

### E. G. AC5FAV-AU-B

AC (series prefix),5 contacts, Female, A Type, Vertical Printed Circuit Board, AU (Gold Plated Contacts) - Bulk Packaged.

SERIES PREFIX	AC	=	Series Prefix
CONTACT LAYOUT	4 5	=	4 Contact 5 Contact
GENDER F = F6		Female Socket Contacts Male Pin Contacts	
SHELL SERIES	A B	= =	A Type B Type
TERMINATION	Н	=	Horizontal Printed Circuit Board
TERMINATION	V	=	Vertical Printed Circuit Board
CONTACT PLATING	AU	=	Gold Plated Contacts
PACKAGING	B PRE	= =	Bulk Packed PRE Series Bulk Packed



# STANDARD DATA AC SERIES A AND B TYPE CHASSIS

		VALUE					
GENERAL CHARACTERISTICS	Number of contacts	3	4	5			
CHANACIENISTICS	Contact Arrangements (Front view of pin insert)		( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	\$ 3 4 h			
	Termination		Printed Circuit Board (PCB)	I			
	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>				
UNANAUTENISTIUS	Test Voltage AC RMS		1500V				
	Current carrying capacity	6	SA	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 CHARACTERISTICS	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	oping PT screw with thread 2.9 x 1.06 and of Tri-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		$0.05 \mu \mathrm{m}$ gold over $2 \mu \mathrm{m}$ nickel				
	Latch lock and Spring		Spring Steel				
	Ground element		Spring Steel				

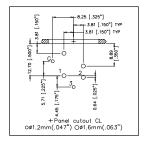
<sup>&</sup>lt;sup>1</sup> Not suitable for domestic applications above 50V

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

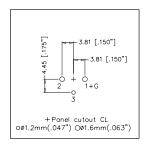
<sup>&</sup>lt;sup>3</sup> Refer to page 152

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

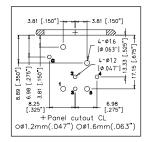
### PCB FOOTPRINTS - CONNECTOR SIDE OF PCB



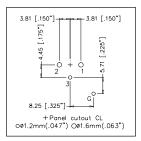
### AC3FAH2 AC3FBH2



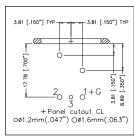
AC3FAV1 AC3FAV3 AC3FBV1 AC3FBV3 AC3FAV AC3FBV



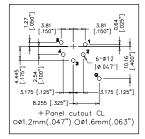
AC5FAH



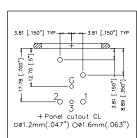
AC3FAV2 AC3FBV2



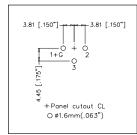
AC3MAH1 AC3MAH3 AC3MBH1 AC3MBH3 AC3MAH AC3MBH AC3MBHL



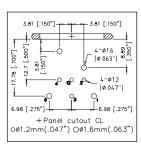
**AC5FAV** 



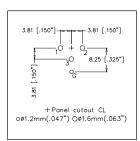
AC3MAH2 AC3MAH4 AC3MBH2



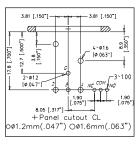
AC3MAV1 AC3MAV3 AC3MBV1 AC3MBV3 AC3MAV AC3MBV



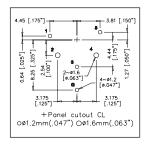
AC5MAH



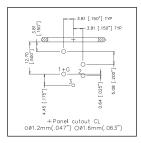
AC3MAV2 AC3MAV4 AC3MBV2



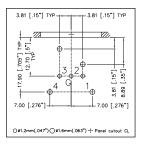
AC3MAH4SWB



AC5MAV



AC3FAH3 AC3FBH1 AC3FBH3 AC3FAH AC3FBH



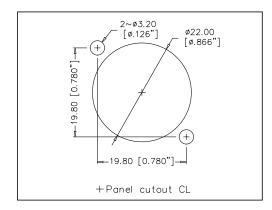
**AC4MAH** 

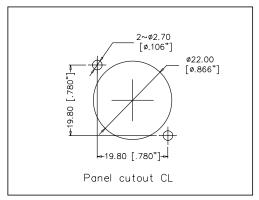
**AC Series XLR PCB Chassis Mount Connectors** 

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

### **PANEL CUTOUT DIMENSIONS - FRONT VIEW**

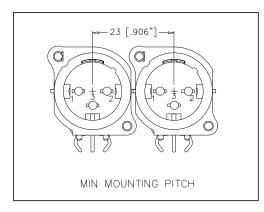
### **A TYPE**

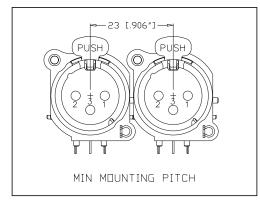




**B TYPE** 

### A AND B **TYPE MALE MOUNTING PITCH**

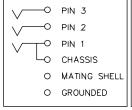


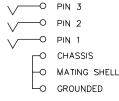


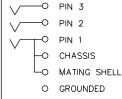
A AND **B TYPE FEMALE MOUNTING PITCH** 

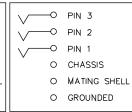
# **AC3FA/BH/V SCHEMATIC CHART**

AC3FA/BH/V3-AU AC3FA/BH/VL3-AU AC3FA/BH/V2-AU AC3FA/BH/VL2-AU AC3FA/BH/V1-AU AC3FA/BH/VL1-AU AC3FA/BH/V-AU AC3FA/BH/VL-AU



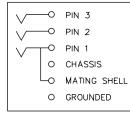


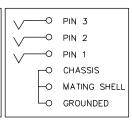


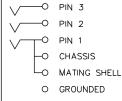


AC3MA/BH/V3-AU AC3MA/BH/VL3-AU AC3MA/BH/V2/4-AU AC3MA/BH/V1-AU AC3MA/BH/VL2/4-AU AC3MA/BH/VL1-AU

AC3MA/BH/V-AU AC3MA/BH/VL-AU











# AC SERIES DUAL 1/4" (6.35MM) / XLR CHASSIS MOUNT

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.

### **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

### **Ordering Codes**

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

# Simple steps to guide you in using this catalogue

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

### 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).

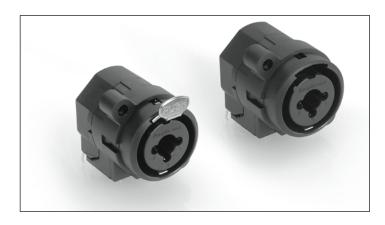
Part Number Breakdown: Page 63 Specifications: Page 65 PCB Footprints: Page 64 Recommended Fastener: Page 152

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	98   78   78   78   78   78   78   78	275 [1082] SCHEMATIC CHART  JACK  SIR  O  O  O  O  O  O  O  O  O  O  O  O  O	Low Profile XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Horizontal PCB mount, Bulk Pack	Latching	ACJC6AH BULK
0	-25 30   996	275 [1082] SCHEMATIC CHART  JACK  XLR  0 2 0 2 0 3 0 2 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
10	79 80   78   78   78   78   78   78   78	24. 0   94.5  37   14.6  SCHEMATIC CHARIT JACK XLR  0.5   0.3   0.3   0.1   0.5   0.5   0.6   0.5   0.5   0.7   0.6   0.8   0.5   0.5   0.8   0.5   0.5   0.8   0.5   0.5   0.9   0.5   0.5   0.	Low Profile XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Vertical PCB mount, Bulk Pack	Latching	ACJC6AV2 BULK
	966 F ST - 25 3 1 996}	3.7   1.66   SCHEMATIC CHART JACK XLR	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
	986 108 2 2 5 30 1996 1 - 25 30 1996	275   1082   SCHEMATIC CHART  JACK XLR  34 0 1  35 0 0 1  36 0 1  37 0 6	Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack, Horizontal PCB mount, Bulk Pack	Latching	ACJC9AH BULK
0	19 80   78   19 80   78   19 80   78   19 80   78   19 80   78   19 80   78   19 80	275   1082   SCHEMATIC CHART   JACK   XLR   XLR	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
	19.80   78  (PURBH) 19.80   78  19.80   7	37   146   SCHEMATIC CHART XLR   ACK	Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack, Vertical PCB mount, Bulk Pack	Latching	ACJC9AV2 BULK
	-19 80   78  -19 80   78  -10 80   78  -1	37   166  SCHEMATIC CHART JACK    State   Stat	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  (PURN) 18 80   78   18 10   18 1	275 11082   SCHEMATIC CHART  JACK XLR  JACK XLR  SS N O 2  SS N O 6  O 6N	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
0	-19.80   78]	275   1082   SCHEMATIC CHART    Schematic Chart	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
16	1980   78  1980   78  1980	37   146   SCHEMATIC CHART XLR	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
10	19 80   78   19 80   78   10	37   166   SCHEMATIC CHART JACK XIR JACK XIR S& 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	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

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



### 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 63 Specifications: Page 65 PCB Footprints: Page 64 Recommended Fastener: Page 152

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	27 [1065] -20 [207] -20 [207]	24 [945] 10.6 SGHEMATIC CHART 4605 SUR 5 0 3 0 2 1 0 0 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Horizontal PCB mount, Bulk Pack	Latching	ACJC5H BULK
	27 [1.063] 27 [1.063] 27 [1.063] 27 [1.063] 27 [1.063] 27 [1.063] 28 [28] 29 [28] 10 [394]	SCHEMATIC CHART  AGC  NR  OS  OS  OS  O1  7 [278]	XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC5HL BULK
	27 [1083] -20 [787] -20 [787] -20 [787] -20 [787] -20 [787]	24 [345] 10.6 SCHEMATIC CHART 3.5 [136] 40.5 SCHEMATIC CHART 40.5 SCHEMATIC CHART 40.5 SCHEMATIC CHART 7 [276] 0.1 O 6	XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Vertical PCB mount, Bulk Pack	Latching	ACJC5V BULK
	27 [1.065] 27 [1.065] 20 [707] 10 [394]	24 [.945"]— 3.5 [.135"] SCHEMATIC CHART  4005 SLR  0 1 0 7 [.276"]— 0 6	XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC5VL BULK
	27 [1.087] 20 [.787] 10 [.394]	24 [ 945"]   10.6   SCHEMATIC CHART   45 [177]   AGCS   M.8   O 3   O 2   O 1   O 6   O 1   O 6   O 6   O 6   O 6   O 6   O 7	XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Solder Contacts, Bulk Pack	Latching	ACJC5S BULK
	27 [1.0637] 20 [787] 8 8 9 9 Q	24 [ 945"] SCHEMATIC CHART 45 [ 1777] 4ACS XL8 O 5 O 2 O 1 O 1 O 1	XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Solder Contacts, Bulk Pack	Non-latching, Retention Spring	ACJC5SL BULK

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

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	27 [1065] -20 [787] -20 [787]	24 [945"] 10.6 SOHMATIC CHART  400 XIR  50 S 0 2  7 [276"] 0 6	XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Horizontal PCB mount, Bulk Pack	Latching	ACJC6H BULK
	27 [1.065] -20 [.787] -20 [.787] -20 [.787] -20 [.787] -20 [.787] -20 [.787]	30: SCHEMATIC CHART  ACC 24 [945*]  SCHEMATIC CHART  ACC 28  OR 0 1  OT 0 6	XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC6HL BULK
	27 [1.065] -20 [1.057] -20 [1.057] -20 [2.07] -20	24 [346"] 10.6 SCHMARC CHART ACS SUR OF OT OF OT OF OT OF OT OF OT	XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Vertical PCB mount, Bulk Pack	Latching	ACJC6V BULK
	27 [1.085] -20 [7.957] -20 [7	24 [945] SCHEMARIC CHART  400 MR  7 [276*] O 5  7 [276*]	XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC6VL BULK
	27 [1.065] -20 [297] -20 [297] -20 [297] -20 [297] -20 [297]	24 [945] 10.6 4.5 [177] 4AC XLS 0 S OS O	XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Solder Contacts, Bulk Pack	Latching	ACJC6S BULK
	27 [1065] 27 [1065]	24 [.945"]  SCHEMATIC CHART  4.5 [.177"]  ACC 3LR  O 5  O C O 1  O T O C	XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Solder Contacts, Bulk Pack	Non-latching, Retention Spring	ACJC6SL BULK
	77 [1065] -20 [1087] -20 [1087] -30 [1087] -	24 [945] 10.6 SOHMATIC CHART 402 XLE 30 S	XLR 3 pole female receptacle with 1/4" switching stereo jack, Horizontal PCB mount, Bulk Pack	Latching	ACJC9H BULK
	27 [1.065] -20 [.787] -20 [.	SCHEMATIC CHART  402  **MR**  **OS**  **OS**	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
	27 (1.083") -20 (292") -20 (	24 [346"] [417"] SCHMATIC CHART  460	XLR 3 pole female receptacle with 1/4" switching stereo jack, Vertical PCB mount, Bulk Pack	Latching	ACJC9V BULK
30	27 [1.063] 20 [787] 10 [.394]	24 [946] 55 [138] SCHEMATIC.CHART  408 818 0 5 0 7 0 80 0 1 0 7 1 276]	XLR 3 pole female receptacle with 1/4" switching stereo jack, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC9VL BULK
	27 (1.063) -20 (1.297) -20 (1.297) -10 (1.394)	24 [345] 10.6   SCHEMATIC CHART   AGS   SUB   SU	XLR 3 pole female receptacle with 1/4" switching stereo jack, Solder Contacts, Bulk Pack	Latching	ACJC9S BULK
	27 (1.065) 20 (787) 10 (394)	24 [946]  -4.5 [177]  SCHEMATIC CHART  AGOS  N.8  O S  O S  O S  N.0  N.0  N.0  N.0  N.0  N.0  N.0  N.	XLR 3 pole female receptacle with 1/4" switching stereo jack, Solder Contacts, Bulk Pack	Non-latching, Retention Spring	ACJC9SL BULK
	27 (1.065) 20 (.787) (.105)	\$\$\\ \text{10.6} \\ \	XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Horizontal PCB mount, Bulk Pack	Latching	ACJC10H BULK
	27 (1.065) 20 [787] 10 [394] 10 [394]	SCHEMATIC CHART  SCHEMATIC CHART  ADOS  SELECTION  SCHEMATIC CHART  ADOS  SELECTION  SEL	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
	27 (1.083) -20 [.297] -20 [.207] -20 [.207]	24 [945] 10.6   SCHEMATIC CHART   SCHEMATIC CHAR	XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Vertical PCB mount, Bulk Pack	Latching	ACJC10V BULK
	27 [1.065] 20 [787] 10 [.394]	24 [ 945 ] SCHEMATIC. CHART  45 [ 1777 ] 4605	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

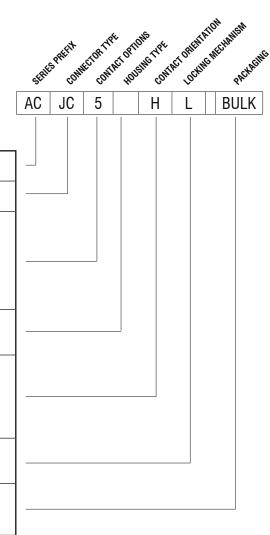
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	27 [1065*] -20 [727*] -20 [7	24 [945] 10.6 SCHEMATI CHART  460 N.8 O 3 O 2 O 3 O 3 O 1 O 1 O 1 O 1 O 1 O 1 O 1 O 1 O 1 O 1	XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Solder Contacts, Bulk Pack	Latching	ACJC10S BULK
60	27 (1.063*) -20 (7.97*) -10 (3.94*) -10 (3.94*)	24 [.945"]  SCHEMATIC CHART  400	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

# AC SERIES THERMOPLASTIC C TYPE

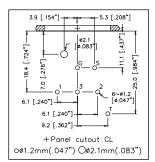
Latchless, Bulk Packaged.

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

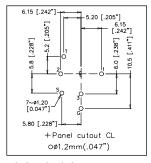
SERIES PREFIX	AC	=	Series Prefix
CONNECTOR TYPE	JC	=	Jack / Connector XLR
CONTACT OPTIONS	5 6 9 10	= = =	Mono, Non Switching, XLR Grounded Stereo, Non Switching, XLR Grounded Stereo, Switching, XLR Grounded Stereo, Switching, XLR with Ground Switch
HOUSING TYPE	Blank A	=	Standard Low Profile / High Density
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



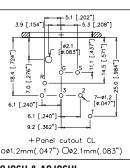
# **AC SERIES C TYPE SERIES**



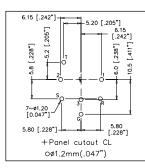




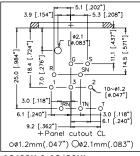
**ACJC5V & ACJC5VL** 



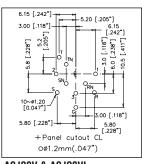
ACJC6H & ACJC6HL



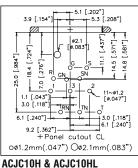
**ACJC6V & ACJC6VL** 

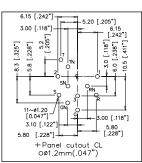


ACJC9H & ACJC9HL

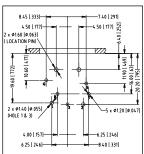


**ACJC9V & ACJC9VL** 

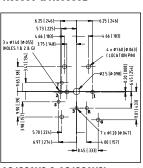




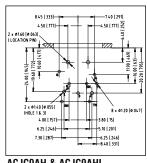
ACJC10V & ACJC10VL



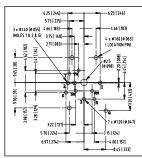
**ACJC6AH & ACJC6AHL** 



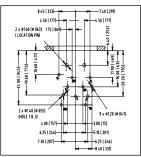
ACJC6AV2 & ACJC6AV2L



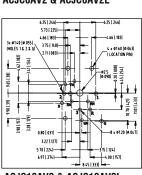
ACJC9AH & ACJC9AHL

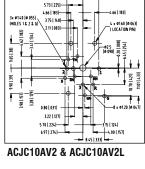


**ACJC9AV2 & ACJC9AV2L** 



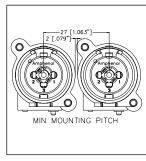
ACJC10AH & ACJC10AHL



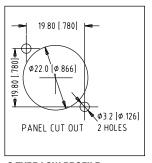


>ø23.8 [ø.937"] 23 (+)20 [0.787"]-+Panel cutout CL

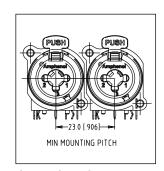
**C TYPE PANEL CUTOUT** 



**C TYPE MOUNTING PITCH** 



**C TYPE LOW PROFILE** PANEL CUTOUT



**C TYPE LOW PROFILE** MOUNTING PITCH

# STANDARD DATA C TYPE CHASSIS RECEPTACLES

		VALUE				
		LOW PROFILE TYPE	STANDARD C TYPE			
GENERAL CHARACTERISTICS	Number of contacts	5, 6, 9	r 10			
CHANACIENISTICS	Termination	Printed Circuit Board (PCB)	Printed Circuit Board (PCB) or Solder Bucket			
	Flammability	UL 9	94HB			
	Environmental	Complies with EU RoHS	2 Directive 2011/65/EU			
ELECTRICAL Characteristics	Service Voltage RMS	50	OV			
CHARACIERISIICS	Test Voltage AC RMS	150	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	IP40				
CHARACTERISTICS	Operating Temperature	-25°C to +70°C				
MECHANICAL Characteristics	Weight**	9.2g (0.02lb)	14g (0.030lb)			
CHARACIERISIICS	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 plate				
	Latch lock and Spring	Nickel Plated				
	Ground element	Nickel Plated	Silver over Copper plated			

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

<sup>\*\*\*</sup>Refer to Page 152

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



# G-TYPE MINIATURE XLR CONNECTORS

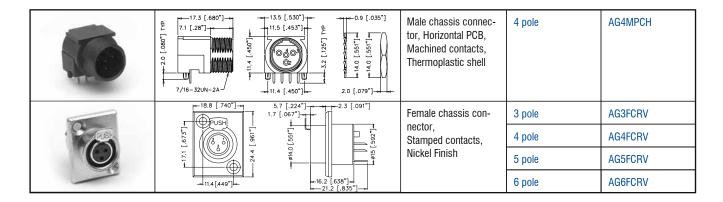
### Features:

- 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 67
PCB Footprints: Page 69
Panel Cutouts: Page 69

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>			5 pole	AG5M
	Ha-	——52 [2.055*]————		6 pole	AG6M
			Female cable con-	3 pole	AG3F
Ca.	#10.5 [.413*]		nector, Stamped contacts,	4 pole	AG4F
		40.5 [1.596"]	Nickel Finish	5 pole	AG5F
	ļ-	49 [1.910"]		6 pole	AG6F
	9 [.33	6 [1.398"]————————————————————————————————————	Female cable connec-	3 pole	AG3FL
1	012.9 [.508 <sup>-</sup> ]→		tor with locking ring, Stamped contacts,	4 pole	AG4FL
			Nickel Finish.	5 pole	AG5FL
	16 [.634"]—	49 [1.929"]		6 pole	AG6FL
	1.0 [.039*]	Male chassis	3 pole	AG3MCC	
1016	/16"-32		connector, Machined contacts, Nickel Finish	4 pole	AG4MCC
	7/16			5 pole	AG5MCC
	2.0 [.079"]	17.8 [.701"]— T 3 pole—		6 pole	AG6MCC
Tin	-22.1 [.870"] 2.5 [.098"] - 14.4 [.567"] - 1.0 - 2.0 [.079"]		Female chassis	3 pole	AG3FCE
		Push   1.726"   1.726	connector, Stamped contacts, Nickel Finish	4 pole	AG4FCE
	-16.5 [.650"].	-18.5 [.726]		5 pole	AG5FCE
	8.6 [.337"]	.4 [.333"]		6 pole	AG6FCE
	26.8 [1.056*]   -15.5 [.610*] -   -1.0 [.039*]	Male chassis connector, Horizontal PCB, Machined contacts, Nickel Finish	3 pole	AG3MCCH	
	20 [.079*]		4 pole	AG4MCCH	
			5 pole	AG5MCCH	
			6 pole	AG6MCCH	
- Co	28.3 [1.114] 28.3 [2.114] 28.3 [2.114] 28.4 [2.33] 28.		Female chassis connector, Horizontal PCB, Stamped contacts, Nickel Finish	3 pole	AG3FCCH
				4 pole	AG4FCCH
				5 pole	AG5FCCH
		2.0		6 pole	AG6FCCH

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



# PART NUMBER BREAKDOWN

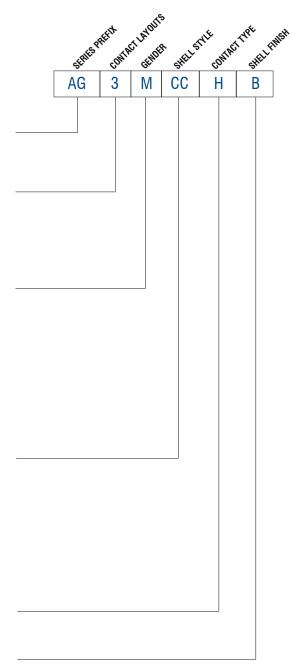
**G TYPE CONNECTORS** 

E. G. AG3MCCHB

AG (Series Prefix), 3 contacts, Male, Chassis Connector, Horizontal PCB Contacts,

Plack 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
	M	=	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)
	CM	=	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**

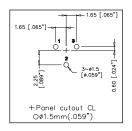
		Γ	VALUE				
GENERAL	Number of Contacts		3	4	5	6	
CHARACTERISTICS	Termination		Printed Circuit Board (PCB) or Solder Bucket				
	Max. Wire G	auge - Stranded Wire	AWG 24 - 0.2mm <sup>2</sup> AWG 28			AWG 28 - 0.08mm <sup>2</sup>	
	Flammability			ULS	94V-HB		
	Environment	al		Complies with EU RoH	IS 2 Directive 2011/65/EU		
ELECTRICAL	Current Carr	ying Capacity	5A	5A	4A	1.2A	
CHARACTERISTICS	Typical Cont	act Resistance		≤`	10mΩ	•	
	Insulation resistance (initial) After Damp Heat Test		≥510MΩ ≥10MΩ				
	Dielectric Strength			1000 V dc		250 V dc	
CLIMATIC	Protection C	lass	IP00				
CHARACTERISTICS	Operating Temperature		-30°C to +80°C (-20F - +176F)				
MECHANICAL	Insertion Spi	ring 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 mating cycles	
	Weight		13.5g (0.029lb)				
MATERIALS	Connector Shell		Bronze & Zinc				
	Connector Shell Finish		Nickel Plated				
	Insulators		PPS - Black				
	Male Contact		Material - Brass C3604 Plating - Gold over Silver Plated				
	Female Contact		Material - Brass C5210P Plating - Gold over Silver Plated				
	Latch Lock and Spring		SUS (AISI - 301) - Nickel Plated				
	Adaptor		PPS - Black				
	Cable Clamp		Bronze - Nickel Plated				
	Boot/Backsh	ell	ABS - Black				
	Grommet		PU - Black				

<sup>&</sup>lt;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.

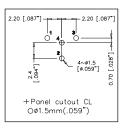
### **G-Type Miniature XLR Connectors**

### **PANEL CUTOUTS**

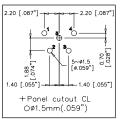
### - CONNECTOR SIDE OF PCB



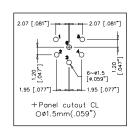
AG3MCC



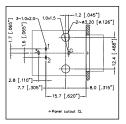
AG4MCC



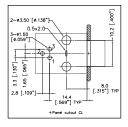
AG5MCC



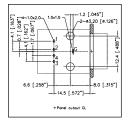
AG6MCC



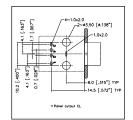
AG3FCCH



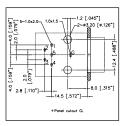
AG3MCCH



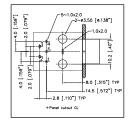
AG4FCCH



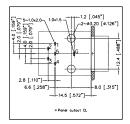
AG4MCCH



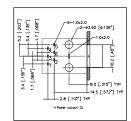
AG5FCCH



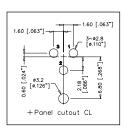
AG5MCCH



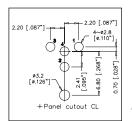
AG6FCCH



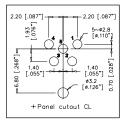
AG6MCCH



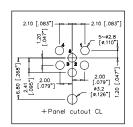
AG3FCRV



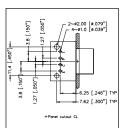
AG4FCRV



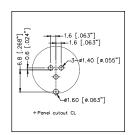
AG5FCRV



AG6FCRV

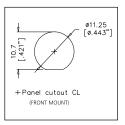


AG4MPCH

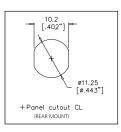


AG3FCE

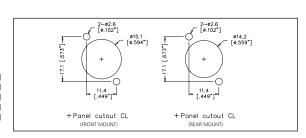
# PANEL CUTOUTS - FRONT VIEW



AG3MCC AG4MCC AG5MCC AG6MCC



AG3MCCH AG4MCCH AG5MCCH AG6MCCH AG4MPCH



AG3FCRV AG4FCRV AG5FCRV AG6FCRV

## **Speaker Connectors**

**G-Type Miniature XLR Connectors** 



# 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

- · 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.
- 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.





# **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

- Chuck type or PG Gland cable clamp
  Various mounting hole options
  GOA Current rating
  Thermoplastic or Metal housing (Cable Plugs)
- UL, cUL recognized components (File no. E339831)
- Industry standard mating

**PCB Footprints: Page 77** 

Part Number Breakdown: Page 75 **Specifications: Page 79 Assembly Instructions: 78** 

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	CONTACT TYPE	SHELL COLOUR	PART NUMBER
	87 [3 43"]		2 pole, Cable connector, Thermoplastic shell,	Screw	Black	SP-2-F
	φ28 [1.10°]		Blue sleeve	Solder	Black	SP-2-FS
	L-7	111	2 pole, Cable connector, Thermoplastic shell,	Screw	Black	SP-2-FG
	0.28	[4 36"]	Blue sleeve, PG Gland	Solder	Black	SP-2-FSG
0	179 1706°1	2 pole, Cable connector,	Screw	Black	SP-2-FL	
STATE OF THE PARTY		Thermoplastic shell, Blue sleeve, PG Gland strain relief	Solder	Black	SP-2-FSL	
	-	87 [3.43"]	2 pole, Cable connector, Metal shell, Blue sleeve	Screw	Nickel	SP-2-FN
	φ <sub>28</sub> [1.10°]	Metal Silell, Dide Sieeve	Solder	Nickel	SP-2-FNS	
To .			Screw	Black	SP-2-FB	
			Solder	Black	SP-2-FBS	
	82 01 111 14 36"]	2 pole, Cable connector, Metal shell, Blue sleeve, PG Gland	Screw	Nickel	SP-2-FNG	
			Solder	Nickel	SP-2-FNSG	
Co.			Screw	Black	SP-2-FBG	
			Solder	Black	SP-2-FBSG	
CHARLES	179 1706-1	2 pole, Cable connector, Metal shell, Blue sleeve, PG Gland strain relief	Screw	Nickel	SP-2-FNL	
			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	
	φ28 [1.10**]		shell, Blue sleeve	Solder	Black	SP-4-FS
		111	4 pole, Cable connector, Thermoplastic black	Screw	Black	SP-4-FG
	1109"	[4 36"]	shell, Blue sleeve, PG Gland	Solder	Black	SP-4-FSG
0	179 1706-1		4 pole, Cable connector, Thermoplastic black	Screw	Black	SP-4-FL
CONTRACTOR OF THE PARTY OF THE		shell, Blue sleeve, PG Gland strain relief	Solder	Black	SP-4-FSL	
	87 [3 4 3"]	4 pole, Cable connector, Metal shell, Blue sleeve	Screw	Nickel	SP-4-FN	
			Solder	Nickel	SP-4-FNS	
			Screw	Black	SP-4-FB	
			Solder	Black	SP-4-FBS	
	111 [4 36"]	4 pole, Cable connector, Metal shell, Blue sleeve, PG Gland	Screw	Nickel	SP-4-FNG	
			Solder	Nickel	SP-4-FNSG	
Co.			Screw	Black	SP-4-FBG	
			Solder	Black	SP-4-FBSG	
CHIMINA	179 1706-1	4 pole, Cable connector, Metal shell, Blue sleeve, PG Gland strain relief	Screw	Nickel	SP-4-FNL	
			Solder	Nickel	SP-4-FNSL	
			Screw	Black	SP-4-FBL	
			Solder	Black	SP-4-FBSL	

# Speaker Connectors SP Series

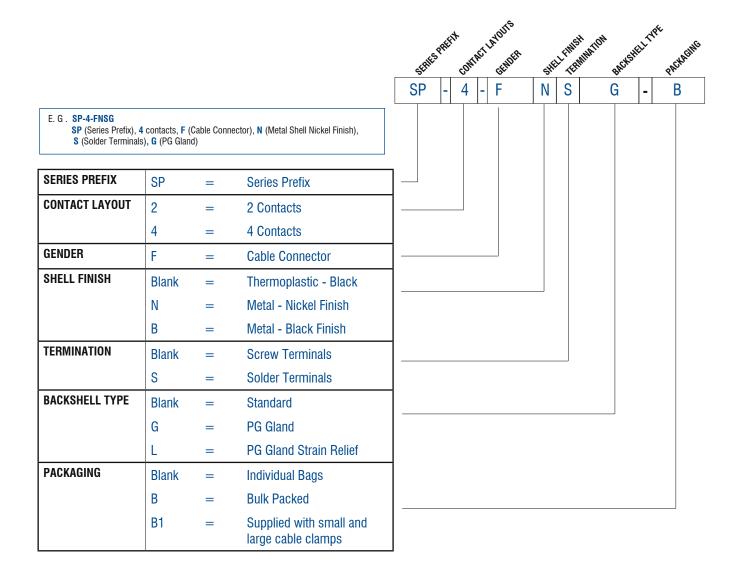
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		28.2 (1.10°) (0.16°) (0.16°) (0.16°) (0.17°) (0.17°)	2 pole, D flange, Thru holes, Solder tabs 3/16"	Black	SP-2-MD
	10.748-1	26.0 (1.024*) (0.224*) (0.224*) (0.224*)	2 pole, D flange, Thru holes, Horizontal PCB	Black	SP-2-MDH
	26.0 (1.024.1) 0.034.1 0.034.1 0.034.1	26.5 (1043') (0138')	2 pole, D flange, Thru holes, Vertical PCB	Black	SP-2-MDV
	26.0 (1.024*)		Airtight 4 pole, D flange Self Tapping holes, Solder Tabs 3.16"	Black	SP-4-MDAT
	26.0(1.024*)  0.0000  0.0000  0.00000  0.0000  0.0000  0.0000  0.0000  0.0000  0.0000  0.00000  0	28.2 (1.110*) 4.8 (0.189*)	Airtight 4 pole, D flange Thru holes, Solder tabs 3/16"	Black	SP-4-MDA
	1	28.2 (1.110°) (1.110°	4 pole, D flange, Thru holes, Solder tabs 3/16"	Black	SP-4-MD
	[.748*]	282 (1.11:1) (1.69:1) (1.69:1) (1.69:1) (1.69:1) (1.69:1) (1.69:1) (1.69:1)	4 pole, D flange, Thru holes, Solder tabs 3/16"	Grey	SP-4-MD-8
	25.0 (1.024·1) (1.024·1) (1.024·1)	282 43 (0.169*)	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
	1.024.1 1.024.1 1.024.1 1.024.1	(1024·) (1024·) (1024·) (1024·) (1024·) (1024·)	4 pole, D flange, Thru holes, Horizontal PCB	Black	SP-4-MDH
	[-17.0 t0.746 J-1	35.7 [1.406') 96 (0.378') 96 (0.378') 97 (0.378') 98 (0.378') 99 (0.378') 90 (0.378') 90 (0.378') 90 (0.378')	4 pole, D flange, Thru holes, Solder tabs 1/4"	Black	SP-4-MDQ
	10.5% 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(1024) (1024) (1024) (1024) (1024)	4 pole, D flange, Self Tapping holes, Horizontal PCB	Grey	SP-4-MDHT-8
	010 000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	26.0 5.7 (0.224·1) (0.224·1) (0.224·1) (0.224·1) (0.177·1)	4 pole, D flange, Self Tapping holes, Horizontal PCB	Black	SP-4-MDHT
(6)	260 (1.024-1)	26.5 (1043°1) 26.5 (138°1) 27.5 (138°1) 27.5 (138°1)	4 pole, D flange, Thru holes, Vertical PCB	Black	SP-4-MDV
(0)	0.E. 11.0.2.1.1.1.1.1.2.2.2.2.2.2.2.2.2.2.2.2	26.5 3.5 (10.43°1) (10.13°1) (10.17°1) (10.17°1)	4 pole, D flange, Thru holes, Vertical PCB	Red	SP-4-MDV-2
	26.0 [1,024*]	260 (1.024*) 25 (0.077*)	4 pole, D flange, Self Tapping holes, Vertical PCB	Grey	SP-4-MDVT-8
0.	508 (42")  Amphanal  A-38 (4(5")	25 (2007) 45 (1177)	4 pole, EP flange, Thru holes, Solder tabs 3/16"	Black	SP-4-MC

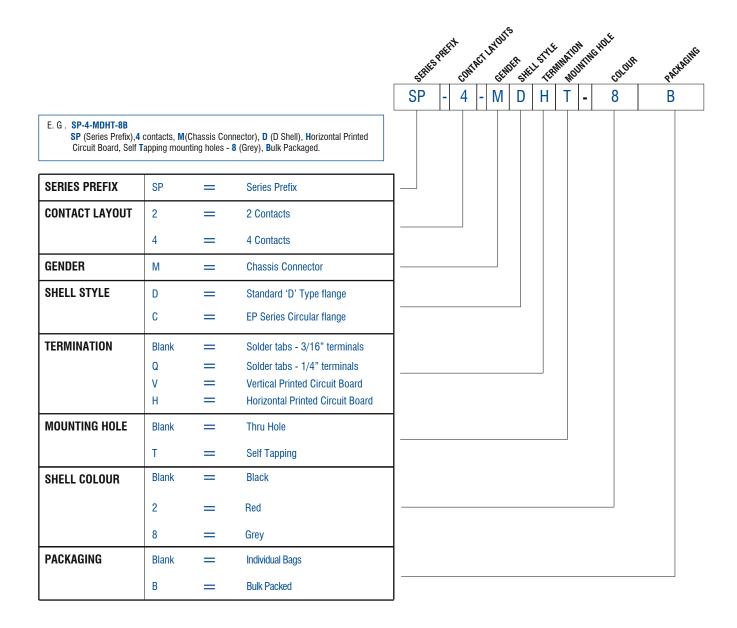
## PART NUMBER BREAKDOWN

SP SERIES - CABLE CONNECTORS



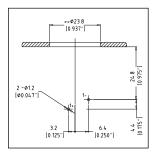
## PART NUMBER BREAKDOWN

SP SERIES - CHASSIS CONNECTORS

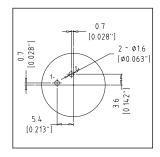


# **SP SERIES**

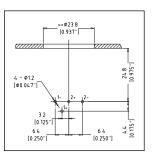
SP-2-MDH



SP-2-MDV



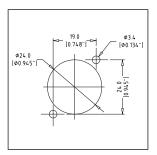
SP-4-MDH SP-4-MDHT-8 SP-4-MDHT

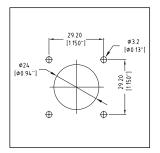


SP-4-MDV SP-4-MDV-2 SP-4-MDVT-8

## **SP SERIES PANEL CUTOUT**

SP-2-MD\*\*\_\* SP-4-MD\*\*\_\*





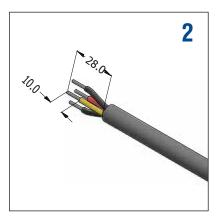
SP-4-MC

# **Speaker Connectors**

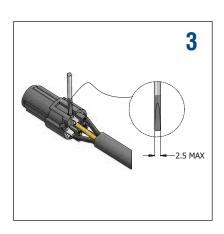
## **SP Series**



Slide the nut onto the cable



Strip the cable and twist the conductors.



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.

# PI 1070 ASSEMBLY INSTRUCTIONS

**SP SERIES CABLE CONNECTOR** 



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.

# **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	20A		
	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	o +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	2 pole 5-10mm (0.19" - 0.39") 6-12mm (0.23" - 0.47") 9-14mm (0.35" - 0.55")	4 pole 9-14mm (0.35" - 0.55") 8-14mm (0.31" - 0.55") 9-14mm (0.35" - 0.55")	
	Conductor Size - Screw Terminals - Solder Bucket	1.5mm² - 4mm² (AWG16 1.5mm² - 6mm² (AWG16		
	Mechanical Operations	5000 mating cycl	es	
MATERIALS	Connector Shell / Finish - Cable Plug Thermoplastic - Cable Plug Metal	PA66 GF30 / Bla Diecast Zinc Alloy / Nicke		
	Insulators - Chassis - Cable Plugs	PA66 GF20 PA66 GF30		
	Cable Boot / Backshell	Santoprene / PA6 G	F 15	
	Cable Clamp (Chuck)	P.O.M		
	Cable Clamp (PG)	Polyemide / EPDM		
	Sleeve	PBT		
	Contact Chassis - Material / Plating Contact Cable Plug	Phosphor Bronze / S	Silver	
	- Material / Plating	Brass / Silver		

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

1 Not suitable for domestic applications above 50V

# **Speaker Connectors**

**EP Series** 



# **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 Specifications: Page 83
Panel Cutouts: Page 84

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		8	EP Male cable	3 pole nickel finish	EP-3-12
		© \$28.9 [ø1.138"]	connector, Machined contacts, Metal Shell	3 pole black finish	EP-3-12B
- Danie	64.0 [2.		IVIELAI SIIEII	4 pole nickel finish	EP-4-12
	85.5 [3.366"]	,		4 pole black finish	EP-4-12B
10				5 pole nickel finish	EP-5-12
				5 pole black finish	EP-5-12B
	-PIN INSULATOR	ELL CAB	PLE CLAMP BUSHING	6 pole nickel finish	EP-6-12
ISO ASSEMBLY OF EP MALE		o Fill File C		6 pole black finish	EP-6-12B
EI MALL				8 pole nickel finish	EP-8-12
				8 pole black finish	EP-8-12B
			EP Female cable connector, Machined contacts,	3 pole nickel finish	EP-3-11P
10	00000000000000000000000000000000000000	3 pole black finish		EP-3-11PB	
			Metal Shell	4 pole nickel finish	EP-4-11P
	88.0 [3.465"			4 pole black finish	EP-4-11PB
				5 pole nickel finish	EP-5-11P
00				5 pole black finish	EP-5-11PB
	-PIN INSULATOR	SHELL CABLE	CLAMP BUSHING	6 pole nickel finish	EP-6-11P
ISO ASSEMBLY OF		3-8		6 pole black finish	EP-6-11PB
EP FEMALE				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
		Ivietal Sileli	4 pole nickel finish	EP-4-14
-10			4 pole black finish	EP-4-14B
	29.2 [1.148"] – 29.2 [1.148"]		5 pole nickel finish	EP-5-14
			5 pole black finish	EP-5-14B
O amount	29.2 [1.148"]		6 pole nickel finish	EP-6-14
	Ø50.8 [Ø2"] → 31.8 [1.252"] →		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-3-13P
		mount, Round Flange, Machined contacts, Metal Shell	3 pole black finish	EP-3-13PB
	7.5 [295']		4 pole nickel finish	EP-4-13P
- 20			4 pole black finish	EP-4-13PB
1000			5 pole nickel finish	EP-5-13P
			5 pole black finish	EP-5-13PB
	###NO### 35 [138*] ### 35 [1438*] ### 36.5 [1.438*]		6 pole nickel finish	EP-6-13P
			6 pole black finish	EP-6-13PB
			8 pole nickel finish	EP-8-13P
			8 pole black finish	EP-8-13PB

# **Speaker Connectors**

**AP Series** 



# **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 83 Panel Cutouts: Page 84

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			AP Male cable	4 pole	AP-4-12
		28.8 (1.135')	connector, Machined contacts,	5 pole	AP-5-12
8			Thermoplastic Black shell.	6 pole	AP-6-12
	100.0 [3.937	·j		8 pole	AP-8-12
			AP Female cable	4 pole	AP-4-11
The state of the s	The second secon	ø28.8	connector, Machined contacts, Thermoplastic Black shell.	5 pole	AP-5-11
(63		<u></u>		6 pole	AP-6-11
	98.7 [3.886*]			8 pole	AP-8-11
	29.2 (1.148 <sup>-</sup> ) 40.0 (1.575 <sup>-</sup> )	<u></u>	AP Male chassis mount, Rectangular Flange, Machined contacts, Thermoplastic Black shell.	4 pole	AP-4-22
		-632.4 [61,276]-		5 pole	AP-5-22
				6 pole	AP-6-22
Service Services				8 pole	AP-8-22
T.		7.5 (.295")	AP Female chassis mount.	4 pole	AP-4-21
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	832.4 (#1.2767) 	Rectangular Flange, Machined contacts, Thermoplastic Black shell.	5 pole	AP-5-21
	AMPHENOL S			6 pole	AP-6-21
DEST HOLD	29.2 [1.148"] — 40.0 [1.575"]	2.8 [.11"] 		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)	1 3 • ° °	1 4 0 2 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 4	0 6 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 8 5 0 3 5		
	Termination			SOLDER				
	Wire Gauge - Stranded wire:	12AWG	12AWG	12AWG	12AWG	14AWG		
	Flammability	UL94V-0						
	Environmental		Complies with	EU RoHS 2 Directi	ve 2011/65/EU			
ELECTRICAL CHARACTERISTICS	Service Voltage RMS <sup>1)</sup>	460V	660V	200V	200V	100V		
	Test Voltage AC RMS	2400V	3000V	1600V	1600V	1300V		
	Current carrying capacity	20A	20A	20A	20A	15A		
	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 2)	80g	84g	86g	86g	86g		
CHARACTERISTICS		(0.176lb)	(0.185lb)	(0.189lb)	(0.189lb)	(0.189lb)		
	Weight - EP 13 & 14 2)	48g	50g	54g	54g	54g		
		(0.105lb)	(0.110lb)	(0.119lb)	(0.119lb)	(0.119lb)		
	Weight - AP 11 & 12 2)	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	44Kg (50lb to 100	lb) - Dependant on	cable material and	diameter		
	Mechanical operations			1000 mating cycle:	S			

 $<sup>\</sup>stackrel{\mbox{\tiny 1)}}{\mbox{Not}}$  Not suitable for domestic applications above 50V

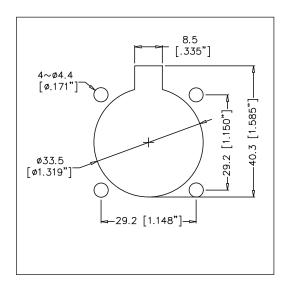
<sup>&</sup>lt;sup>2)</sup> Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.

# STANDARD DATA EP/AP (CONT'D)

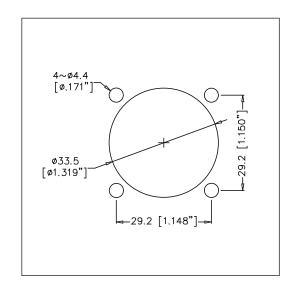
		DETAILS				
MATERIALS	ТҮРЕ	AP	EP			
	Connector shell	Modified PPE Resin	Diecast Zinc Alloy			
	Shell finish	Black	Satin Nickel or Black			
	Insulators	UL94V-0 PBT Resin				
	Cable Bushing	Silicon Rubber	UL94 HB Thermoplastic Elastomer			
	Male contact Machined - Solder					
	Material / Plating	Brass / E	Bright Tin			
	Female contact Machined - Solder					
	Material / Plating	Brass / E	Bright Tin			
CLAMPING	Cable OD Range	11mm to 17mm	9mm to 16mm			
CHARACTERISTICS		(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





# **HP SERIES**

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

THE HP SERIES OF CONNECTORS ARE NOT DESIGNED TO BE "HOT PLUGGED" AND SO ARE WITHOUT "BREAKING CAPACITY". IN OTHER WORDS, THE CONNECTORS SHOULD NOT BE CONNECTED OR DISCONNECTED LIVE OR WHEN UNDER LOAD

## Features:

- Quick release, vibration resistant latch lock
- 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.
150	82.1[3.232]	3 pole, Cable connector, Thermoplastic shell, Blue sleeve, keyed for power-in	Screw	Blue	HP-3-F
To	82.1[3.232]	3 pole, Cable connector, Thermoplastic shell, Grey sleeve, keyed for power-out	Screw	Grey	HP-3-FG
10	26.0(1.024)  26.2(0.953)  26.2(0.953)  26.2(0.953)  8.0  19.0(0.748)  25.5  19.00(0.748)  25.5  10.098)	3 pole, Chassis connector, Thermoplastic shell, Blue, keyed for power-in	Solder Tab 3/16"	Blue	HP-3-MD
= (0)	26.0[1.024]  24.2[.953]  8.0  1.314  Auruphvened  25.5  19.00[.748]  26.5  19.00[.748]	3 pole, Chassis connector, Thermoplastic shell, Grey, keyed for power-out	Solder Tab 3/16"	Grey	HP-3-MDG
90	26.0 [1.024]  24.7 [0.972]  7.5  10.294]  25.5  26.0 [1.024]  26.0 [1.024]  27.5  10.098]  28.5  29.0 [0.177]	3 pole, Chassis connector, Thermoplastic shell, Blue, keyed for power-in, without insulation divider	Solder Tab 3/16"	Blue	HP-3-MDW
(0)	26.0 [1.024]  24.7 [.972]  7.5  (.294)  (.295)  (.998)  4.5  (.998)	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 0.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	2.5mm² (AWG14)
MATERIALS	Connector Shell / Finish	PA66 GF30 / Black
	Insulators	PA66 GF30
	Cable Boot / Backshell	Santoprene / PBT
	Cable Clamp (Chuck)	P.O.M
	Contact Plug - Material / Plating	Brass / Silver
	Contact Chassis - Material / Plating	Phosphor Bronze / Silver

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



# **HPT SERIES**

 $\ensuremath{\mathsf{HPT}}$  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
The state of the s	29:1] £ 62 - 226.5 [Ø].0	79 [3.098*]	3 pole, Outlet Cable connector, Locking, Thermoplastic shell, Screw terminals, Lockable backshell	Screw	Black	HPT-3-F
The state of the s	25 S [01.0	79 [3.098]	3 pole, Outlet Cable connector, Locking, Thermoplastic shell, Screw terminals	Screw	Black	HPT-3-FJ
	-226.5 [8]	77 [3.043°]	3 pole, Inlet Cable connector, Locking, Thermoplastic shell, Screw terminals, Lockable backshell	Screw	Black	НРТ-3-М
	\$28.5 \( \psi \).	77 [3.043"]	3 pole, Inlet Cable connector, Locking, Thermoplastic shell, Screw terminals	Screw	Black	HPT-3-MJ
1	9.0 [.748*] 93.2 [0.126*] 0.27 26.0 [1.023*]	23.7 [.933"] -0.5 [.415"] -2.5 [.098"]	3 pole, Chassis Inlet connector, Thermoplastic shell, 1/4" flat tab terminals	Tab 1/4"	Black/ Yellow	HPT-3-MD
	19.0 [.748*] 85.2 [8:126*] 19.0 [.748*] 19.0 [.748*]	23.7 [.935*] 	3 pole, Chassis Inlet connector, Thermoplastic shell, without insulation divider, ¼" flat tab terminals	Tab 1/4"	Black/ Yellow	HPT-3-MDW
	23.2 (8.126) - 24.4 (.961) - 25.4 (.961) - 2	24.0 [.945'] 10.5 [.415']	3 pole, Chassis Outlet connector, Thermoplastic shell, ¼" flat tab terminals	Tab 1/4"	Black/ Yellow	HPT-3-FD
	©3.2 [Ø.125"]——24.4 [.951"]  ———————————————————————————————————	24.0 [945"] 10.5 [413"] 24.5 [177"] 5.7 [224"]	3 pole, Chassis Outlet connector, Thermoplastic shell, without insulation divider, 1/4" flat tab terminals	Tab 1/4"	Black/ Yellow	HPT-3-FDW
	0.0 (2.402°)	76.2 (1.05°) 7.5 (.576°) 7.5 (	3 pole, Chassis Inlet-Outlet combination, Thermoplastic shell, 1/4" flat tab terminals	Tab 1/4"	Black/ Yellow	HPT-3-CC

## **Power Connectors**

## **HPT Series**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	COLOUR	PART NUMBER
0	Ø3.0 [Ø0.12]	8 (1.21)	Protective sealing cap with stainless steel lanyard to suit HPT-3-MD / HPT-3-MDW	Black	HPT-CAPM
0	03.0 (00.12)	0.4 [1.59]	Protective sealing cap with stainless steel lanyard to suit HPT-3-FD / HPT-3-FDW	Black	HPT-CAPF
	Ø3.0 (Ø0.12)————————————————————————————————————	68 0 [2 80]	Protective sealing cap with stainless steel lanyard to suit HPT-3-CC	Black	HPT-CAPD
	74	Ø3.2 (Ø0.13)	Protective Self-closing sealing cap with stainless steel spring to suit HPT-3-MD / HPT-3-MDW	Black	HPT-CAPSM
	96:11 6:69	-03.2 (00.13)	Protective Self-closing sealing cap with stainless steel spring to suit HPT-3-FD / HPT-3-FDW	Black	HPT-CAPSF
	(2.5 [1.50]	-03.2 (00.13) 57.1 [2.64]	Protective Self-closing sealing cap with stainless steel spring to suit HPT-3-CC	Black	HPT-CAPSD
	28.2 [1.11]	21.0 [0.83]	Cable connector backshell lock release tool	Black	HPT-RT

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# **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
	Breaking Cycles	5000
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	2.5mm² (AWG12)
	Mating Cycles	5000
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

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

#### **Amphe-Dante Adapters**



# AMPHE-DANTE ADAPTERS

Amphe-Dante are Dante™ audio to analogue audio adapters, available for Input, Output, AES3 and USB applications. Featuring premium quality Amphenol AX series XLR and RJ45 connectors in a robust molded housing.

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 audio equipment.

Amphe-Dante feature high-quality digital-to-analogue 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.



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

ENTERTAINMENT @ AMPHENOL TRUSTED GLOBALLY

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

## **Amphe-Dante Adapters**



### Features:

- Dante™to analogue XLR output adapters
   Line level analogue input to Dante™ audio output adapters
   Dante™ AES3 2 channel input/output adapters
   Dante™USB input/output adapters
   One channel or Two channel analogue input or output

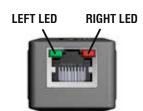
- · Durable overmolded housing
- Resilient cable strain relief
  Shielded RJ45 metal connectors with integrated LED's
- Premium AX Series XLR connectors

	PRODUCT	DRAWING Dimensions in mm (inches)	DESCRIPTION	PART NO.
ANA	ALOGUE OUTPUT	-72 [2.84] - 101 [3.98] - 72 [2.84] - 72 [	Analogue Output - 1 channel, RJ45 input to XLR output, Durable overmolded housing	RJD1112-0050
	Cr.	500 [19.69]  -72 [2.84]  -101 [3.98]  -28  [1.11]  -28  [1.11]	Analogue Output - 2 channel, RJ45 input to XLR output, Durable overmolded housing	RJD1212-0050
AN	ALOGUE INPUT	72 [2.84] 101 [3.98] 28 [1.11] 72 [2.84] 72 [2.84]	Analogue line level Input - 1 channel XLR input to RJ45 output, Durable overmolded housing	RJD2103-0050
		500 [19.69]  28  [1.11]  Ampho-Dants   72   72   72   72   72   72   72   7	Analogue line level Input - 2 channel XLR input to RJ45 output, Durable overmolded housing	RJD2203-0050
AES		72 [2.84] 101 [3.98] 28 [1.11] 72 [2.84] 72 [2.84]	AES3 Input / Output - 2 channel XLR I/O to RJ45 I/O, Durable overmolded housing	RJD32A3-0050
USE		7—500 [19.69]———————————————————————————————————	USB Input / Output - 2 channel USB I/O to RJ45 I/O Durable overmolded housing	RJD32U1-0050

# **SPECIFICATIONS**

		ANALOG INPUT 1CH	ANALOG INPUT 2CH	ANALOG OUT- Put 1ch	ANALOG OUT- Put 2CH	AES3 I/O 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 inbalanced	150 Ohm 75 Ohm u	balanced nbalanced	110 Ohm balanced	-
	Frequency Response	20Hz to 20 kH	Hz (+/-0.5db)	20Hz to 20 kH	Hz (+/-0.5db)	-	-
	Dynamic Range	> 10	00dB	> 10	00dB	-	-
	Signal to Noise	> 10	00dB	> 10	OdB	> 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), a	nd 96 kHz		48 kHz
	Bit Depth			24	bits		
	Network Speed			100	Mbps		
	Network Interface			Latency f	rom 1ms		
	Network Transport			Dante Audio ove	r IP, AES67 RTP		
CLIMATIC	Protection Class			IP	40		
	Operating Temperature		-5°C to +60°C (23°F to +140°F)				
MECHANICAL	Insertion and Withdrawal Force		≥10N - ≤35N				
	Weight	136g (0.299lb)	192g (0.423lb)	136g (0.299lb)	192g (0.423lb)	192g (0.423lb)	110g (0.243lb)
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

**Amphe-Dante Adapters** 



# XLRnet Connectors

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 or light pipes 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.
- · Light pipes
- 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
- · Light Pipes

## **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.

### **XLRnet Series Cable Connector**



# **XLRNET SERIES CABLE CONNECTOR**

#### 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 95

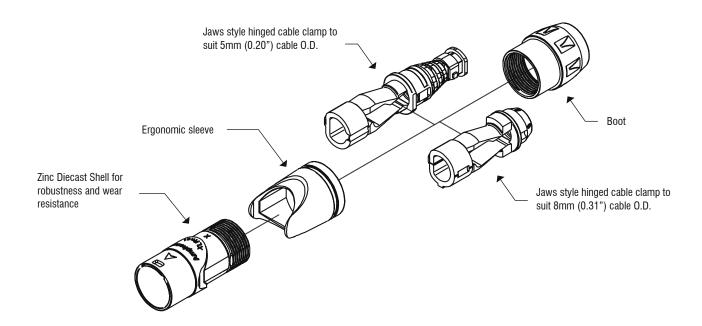
Part Number Breakdown : Page 95

**Assembly Instructions: Page 96** 

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

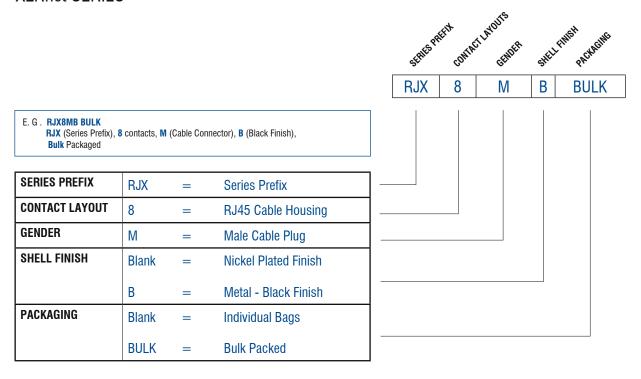
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
THE STATE OF THE S		[3.31"]	XLRnet, XLR cable plug housing to suit preas- sembled RJ45 cables, Nickel Finish	Standard	RJX8M
	(81")			Bulk Pack	RJX8M BULK
SHEET STATE OF THE	-	[3.31"]	XLRnet, XLR cable plug housing to suit preassembled RJ45	Standard	RJX8MB
100	(1.81")		cables, Black Finish	Bulk Pack	RJX8MB BULK

## **ISO VIEW OF RJX8M**



# PART NUMBER BREAKDOWN

**XLRnet SERIES** 

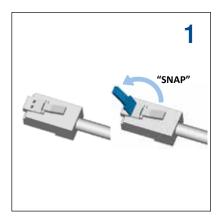


# **STANDARD DATA XLRnet SERIES**

		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

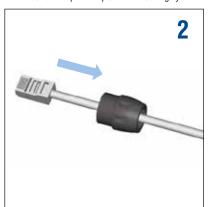
 $<sup>{\</sup>tiny 21} \ Approximate \ weight \ only, \ does \ not \ include \ packaging. \ Please \ contact \ us \ for \ exact \ weight \ for \ shipping \ purposes.$ 

### **XLRnet Series Cable Connector**



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.

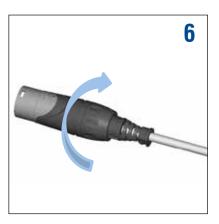
# XLRnet SERIES CABLE ASSEMBLY INSTRUCTIONS



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.

## XLRnet Series A & B Type Chassis Receptacles



# XLRNET SERIES A & B TYPE CHASSIS RECEPTACLES

#### 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
- · Light pipes
- · Horizontal or Vertical PCB
- Mates with XLRnet cable plugs or standard RJ45 plug.

Part Number Breakdown: Page 100

Specifications: Page 107 PCB Footprints: Page 101

**Recommended Fastener: Page 153** 

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	TYPE		ED* S/RHS	PART NUMBER
	19.80 2.7 PUBM 0	19.7	XLRnet chassis, A type, Horizontal PCB	Class D	-	-	RJX8FA3HB
	-12.55			CAT5E			RJX8FA5HB
	THIIIIII E			CAT6			RJX8FA6HB
	19.80 2.7 2.7 (Push)	24.9	XLRnet chassis B type, Horizontal PCB	Class D	-	-	RJX8FB3HB
				CAT5E			RJX8FB5HB
				CAT6			RJX8FB6HB
6	-2.7 (106') -201 (791') -25.4 (1.000')	XLRnet chassis, B type, Light pipes, Horizontal PCB, Bulk packed	CAT5E	-	-	RJX8FB5HLPB	
	198 ( 1987) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(250 )		CAT6	-	-	RJX8FB6HLPB
			XLRnet chassis,	CAT5E	R	G	RJX8FB5HRGB
			B type, LEDs,		R	Υ	RJX8FB5HRYB
			Horizontal PCB, Bulk packed		R	R	RJX8FB5HRRB
Du ale	19.80 2.7	19.7	'		G	R	RJX8FB5HGRB
AUSH AUSH	(Push)				G	Υ	RJX8FB5HGYB
	17.				U	U	RJX8FB5HUUB
	2.5			CAT6	R	G	RJX8FB6HRGB
					R	Υ	RJX8FB6HRYB
		†			R	R	RJX8FB6HRRB
				G	R	RJX8FB6HGRB	
					G	Υ	RJX8FB6HGYB
					U	U	RJX8FB6HUUB

<sup>\*</sup>Note: LED colours are denoted left to right from the panel side front view. Refer page 106 R = Red, G = Green, Y = Yellow, U = Blue

## XLRnet Series A & B Type Chassis Receptacles

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	TYPE		ED*	PART NUMBER	
A S	19.80 2.7	25.4	XLRnet chassis, B type, Shielded Hood, Horizontal PCB,	Class D CAT5E	-	-	RJX8FB3HEB RJX8FB5HEB	
		**************************************	Bulk packed	CAT6			RJX8FB6HEB	
A G	19.8 L780°1 -	-2.7 (.106*) -201 (.791*)	XLRnet chassis, B type, Shielded Hood, Light pipes, Horizontal PCB,	CAT5E	-	-	RJX8FB5HLPEB	
	0158 (a.7007)	-035 (e.138*)	Bulk packed	CAT6	-	-	RJX8FB6HLPEB	
			XLRnet chassis,	CAT5E	R	G	RJX8FB5HRGEB	
			B type, Shielded Hood,		R	Υ	RJX8FB5HRYEB	
			LEDs, Horizontal PCB, Bulk packed		R	R	RJX8FB5HRREB	
	19.8 ——		Bulk packed		G	R	RJX8FB5HGREB	
100	2.7—14.0 2.7—15.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	20.1			G	Υ	RJX8FB5HGYEB	
					U	U	RJX8FB5HUUEB	
		28.8		CAT6	R	G	RJX8FB6HRGEB	
					R	Υ	RJX8FB6HRYEB	
	י ע ני טוייטטטטטטטט די	, A A A A A A A A A A A A A A A A A A A			R	R	RJX8FB6HRREB	
					G	R	RJX8FB6HGREB	
					G	Υ	RJX8FB6HGYEB	
					U	U	RJX8FB6HUUEB	
-	19.80 2.7 2.7 PUSH O	18.3	XLRnet chassis, A type, Vertical PCB - 18.3mm,	Class D	-	-	RJX8FA3VB	
				Bulk packed	CAT5E			RJX8FA5VB
10				CAT6			RJX8FA6VB	
	19.8 [0.780]	2.7 [0.106] 4.0 [0.945]	XLRnet chassis, A type, Vertical PCB - 24mm, Bulk packed	CAT5E			RJX8FA5V2B	
	19.8 [0.780]	28.5 [1.122]		CAT6			RJX8FA6V2B	
****	19.80 2.7 O PUSH) O	18.3	XLRnet chassis, B Type, Vertical PCB - 18.3mm,	Class D	-	-	RJX8FB3VB	
			Bulk packed	CAT5E			RJX8FB5VB	
				CAT6			RJX8FB6VB	
B.C.	19.8 (.780°) — O(PUSH) O	24.9 [980']	XLRnet chassis, B type, Vertical PCB - 24mm, Bulk packed	CAT5E	-	-	RJX8FB5V2B	
	1.5 (1.036)			CAT6	-	-	RJX8FB6V2B	

<sup>\*</sup>Note: LED colours are denoted left to right from the panel side front view. Refer page 106 R = Red, G = Green, Y = Yellow, U = Blue

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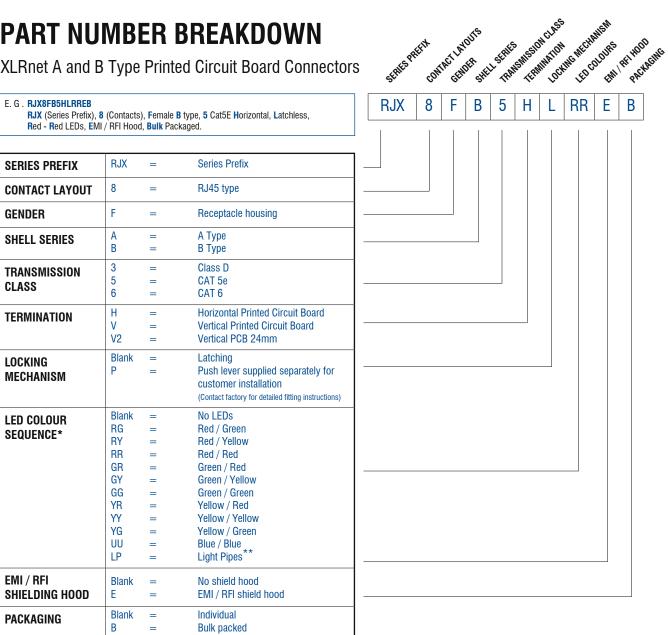
## XLRnet Series A & B Type Chassis Receptacles

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	TYPE		E <b>D*</b> S/RHS	PART NUMBER
E COMMON TO SERVICE OF THE PARTY OF THE PART	27 (106')— 140 (551')	249 (945')	XLRnet chassis, B type, Light pipes, Vertical PCB - 24mm, Bulk packed	CAT5E	-	-	RJX8FB5V2LPB
	198 (7807)	1,500		CAT6	-	-	RJX8FB6V2LPB
			XLRnet chassis,	CAT5E	R	G	RJX8FB5VRGB
			B type, LEDs,		R	Υ	RJX8FB5VRYB
			Vertical PCB, Bulk packed		R	R	RJX8FB5VRRB
-	19.80—= 2.7—=	18.3 - 3.3 - 24.9	Built publica		G	R	RJX8FB5VGRB
44 (155)	14.00				G	Υ	RJX8FB5VGYB
2	Amphanol Amphanol				U	U	RJX8FB5VUUB
A FEET	Amphonol 88			CAT6	R	G	RJX8FB6VRGB
					R	Υ	RJX8FB6VRYB
					R	R	RJX8FB6VRRB
					G	R	RJX8FB6VGRB
					G	Υ	RJX8FB6VGYB
					U	U	RJX8FB6VUUB
	19.80 2.7-	18.3 25.4	XLRnet chassis, B type,	Class D	-	-	RJX8FB3VEB
		vertical POB, - 18.3mm,	CAT5E			RJX8FB5VEB	
			CAT6			RJX8FB6VEB	
Se Contraction of the Contractio	-19.8 (.780°) O (Push O	240 [945'] — 3.2 [126'] — 25.4 (1000') —	Shielded Hood, Vertical PCB - 24mm, Bulk	CAT5E	-	-	RJX8FB5V2EB
	115 (147)		pastica	CAT6	-	-	RJX8FB6V2EB
E CO	19.8 (.780°) 14.0 (.551°) 27 (.106°) 1	240 (945') 32 (126') 25.4 (1000')	XLRnet chassis, B type, Shielded Hood, Light pipes, Vertical PCB - 24mm, Bulk packed	CAT5E	-	-	RJX8FB5V2LPEB
	1.08671	411 0 65 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	24IIIII, buik packeu	CAT6	-	-	RJX8FB6V2LPEB
			XLRnet chassis,	CAT5E	R	G	RJX8FB5VRGEB
			B type, Shielded Hood,		R	Υ	RJX8FB5VRYEB
			LEDs, Vertical PCB, - 18.3mm, Bulk packed		R	R	RJX8FB5VRREB
	19.80 2.7-	<u></u> 18.3— <u></u> 3.4 <del>1</del> 25.4— <u></u>	10.0mm, Baik paokou		G	R	RJX8FB5VGREB
	14.00-				G	Υ	RJX8FB5VGYEB
A	<b>₽</b>				U	U	RJX8FB5VUUEB
7	Amphonol & S			CAT6	R	G	RJX8FB6VRGEB
1					R	Υ	RJX8FB6VRYEB
	- W				R	R	RJX8FB6VRREB
					G	R	RJX8FB6VGREB
					G	Υ	RJX8FB6VGYEB
					U	U	RJX8FB6VUUEB

<sup>\*</sup>Note: LED colours are denoted left to right from the panel side front view. Refer page 106 R = Red, G = Green, Y = Yellow, U = Blue

# PART NUMBER BREAKDOWN

XLRnet A and B Type Printed Circuit Board Connectors



<sup>\*</sup>Note: LED colours are denoted left to right from the panel side front view. Refer Page 106

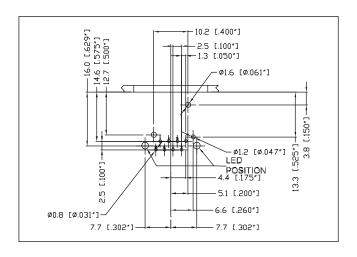
100

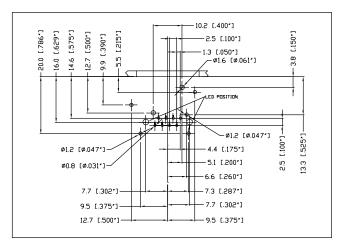
<sup>\*\*</sup> Light Pipes not available with termination option V, order V2 or H only

# XLRNET A AND B TYPE PRINTED CIRCUIT BOARD CONNECTORS

## **PCB LAYOUT** FRONT VIEW

### **HORIZONTAL**

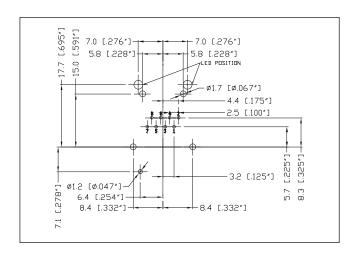


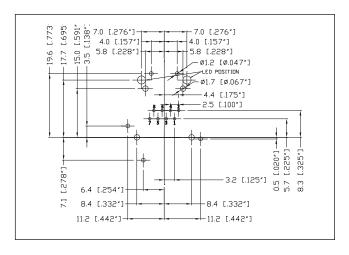


### RJX8FB5HLPB RJX8FB6HLPB

RJX8FB5HLPEB RJX8FB6HLPEB

### **VERTICAL**



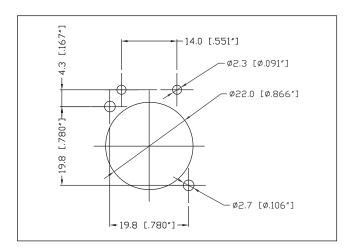


RJX8FB5V2LPB RJX8FB6V2LPB RJX8FB5V2LPEB RJX8FB6V2LPEB

XLRnet Series A & B Type Chassis Receptacles

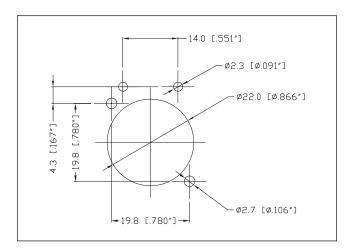
## PANEL CUTOUT DIMENSIONS FRONT VIEW

## **HORIZONTAL**



RJX8FB5HLPEB RJX8FB6HLPEB RJX8FB5HLPB RJX8FB6HLPB

## **VERTICAL**



RJX8FB5V2LPEB RJX8FB6V2LPEB RJX8FB5V2LPB RJX8FB6V2LPB

**XLRnet Series D Type Chassis Receptacles** 



# XLRNET SERIES D TYPE CHASSIS RECEPTACLES

### 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 105 Specifications: Page 107 PCB Footprints: Page 106

Recommended Fastener: Page 153

PRODUCT - FIGURE	DRAWING	Dimensions in n	nm (inches)	DESCRIPTION	TYPE	PART NUMBER
	26.0 19.00 19.00 11.00 10.00 1	25 - 20 1 - 15 4 - 15 4 - 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CATAS OF THE STATE	XLRnet chassis, D type, Feedthrough, Nickel Finish	CAT5E	RJX8FD5T
	26 0 19 00 PUSH	5-198-160-	0 566 0 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	XLRnet chassis, D type, IDC Terminals, 110 type, Nickel Finish	CAT5E	RJX8FD5110
	Amphoenol				CAT6	RJX8FD6110
	26 0 2	55-198-101	568	XLRnet chassis, D type, IDC Terminals, Nickel Finish	CAT5E	RJX8FD5I
	do 2 2 2 Amphanol				CAT6	RJX8FD6I
San.	19 00 PUSBI	25	26.0	XLRnet chassis, D type, Horizontal PCB, Nickel	Class D	RJX8FD3HB
1/2				Finish	CAT5E	RJX8FD5HB
	Amphenol				CAT6	RJX8FD6HB
Tax C	19.00	2.5 - 18.5 - 3.3	26.0	XLRnet chassis, D type, Vertical PCB, Nickel Finish	Class D	RJX8FD3VB
	PUSH				CAT5E	RJX8FD5VB
	Armphanol Amendamia				CAT6	RJX8FD6VB

## **XLRnet Series D Type Chassis Receptacles**

PRODUCT - FIGURE	DRAWING	Dimensions in	mm (inches)	DESCRIPTION	ТҮРЕ	PART NUMBER
10	20 0 10 0 20 0 20 0 20 0 20 0 20 0 20 0	5.6 35 18.1 15.4	Paragraph of the paragr	XLRnet chassis, D type (IP54), Feedthrough, Nickel Finish	CAT5E	RJXS8FD5T
	20 C	55 35 17.5 19.0	553	XLRnet chassis, D type (IP54), IDC Terminals, 110 type, Nickel Finish	CAT5E	RJXS8FD5110
		85 339 17.5 10.15	500 p	XLRnet chassis, D type (IP54), IDC Terminals,	CAT5E	RJXS8FD5I
	Amphanol			Nickel Finish	CAT6	RJXS8FD6I
9	19.0	9.4	20.	XLRnet chassis, D type (IP54), Horizontal PCB,	Class D CAT5E	RJXS8FD3HB RJXS8FD5HB
	Amphanol			Nickel Finish	CAT6	RJXS8FD6HB
		5.6 3.2 16.5 - 3.3 1	25.0	XLRnet chassis, D type (IP54),	Class D	RJXS8FD3VB
				Vertical PCB, Nickel Finish	CAT5E	RJXS8FD5VB
	Amphenol				CAT6	RJXS8FD6VB
	28.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19	6-18.1-15.4	**************************************	XLRnet chassis with Protective cap, D type (IP54), Feedthrough, Nickel Finish	CAT5E	RJXS8FG5T
	28.0 19.0 33.0 31.0 33.0 41.0 41.0 41.0 41.0 41.0 41.0 41.0 41	3.9		XLRnet chassis with Protective cap, D type (IP54),	CAT5E	RJXS8FG5110
3				IDC Terminals, 110 type, Nickel Finish	CAT6	RJXS8FG6110
	26.0	3.9		XLRnet chassis with Protective cap, D type (IP54),	CAT5E	RJXS8FG5I
3	S 7 (Angelona)			IDC Terminals, Nickel Finish	CAT6	RJXS8FG6I
	26.0 5	3.9		XLRnet chassis with Protective cap,	Class D	RJXS8FG3HB
	2007		1 7 7 6	D type (IP54), Horizontal PCB, Nickel Finish	CAT5E CAT6	RJXS8FG5HB RJXS8FG6HB
	26.0	5.6-7-4-7-3.9	999998		Class D	RJXS8FG3VB
	19.0	-16.5		XLRnet chassis with Protective cap, D type (IP54),	CAT5E	RJXS8FG5VB
3				Vertical PCB, Nickel Finish	CAT6	RJXS8FG6VB

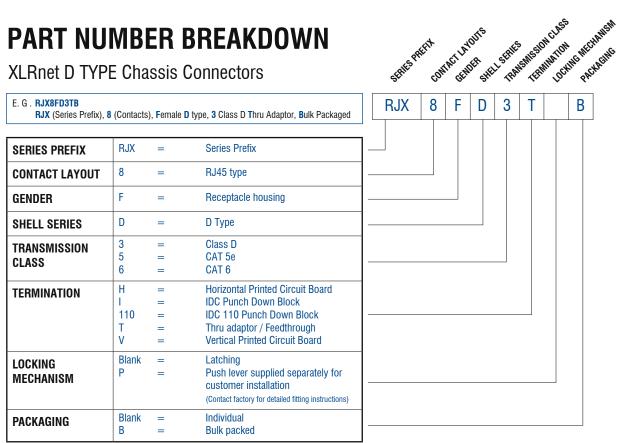
104

**XLRnet Series D Type Chassis Receptacles** 

В

## PART NUMBER BREAKDOWN

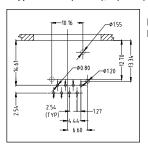
XLRnet D TYPE Chassis Connectors



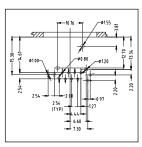
<sup>\*</sup>Note: LED colours are denoted left to right from the panel side front view. Refer Page 106

# XLRNET A, B AND D TYPE SERIES

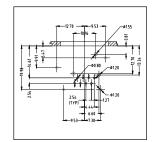
\* Applicable to 3 (Class D), 5 (CAT5E) and 6 (CAT6), where available



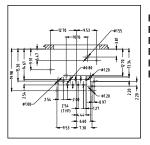
RJX8FA\*H RJX8FA\*HB



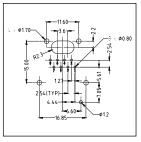
RJX8FB\*HRGB RJX8FB\*HRYB RJX8FB\*HRRB RJX8FB\*HGRB RJX8FB\*HGYB RJX8FB\*HGGB



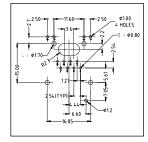
RJX8FB\*HEB



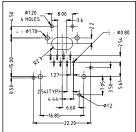
RJX8FB\*HRGEB RJX8FB\*HRYEB RJX8FB\*HREB RJX8FB\*HGREB RJX8FB\*HGYEB RJX8FB\*HGGEB



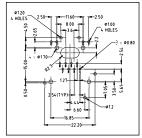
RJX8FA\*VB RJX8FB\*VB



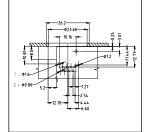
RJX8FB\*VRGB RJX8FB\*VRYB RJX8FB\*VRRB RJX8FB\*VGRB RJX8FB\*VGYB RJX8FB\*VUUB



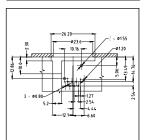
RJX8FB\*VEB



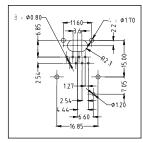
RJX8FB\*VRGEB RJX8FB\*VRYEB RJX8FB\*VGREB RJX8FB\*VGYEB RJX8FB\*VUUEB



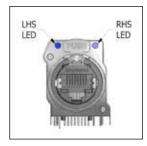
RJX8FD\*HB (Front Mounting)



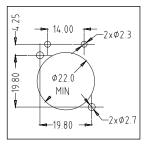
RJX8FD\*HB (Rear Mounting)



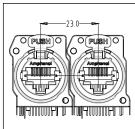
RJX8FD\*VB



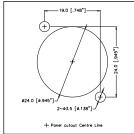
LED Arrangement (Front view)



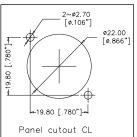
PANEL CUTOUT A and B type with LED's



XLRnet MOUNTING PITCH / A and B Type



D Type



A and B Type

# STANDARD DATA XLRnet CHASSIS RECEPTACLES

		VALUE							
		Class D	1	CATE					
	In a contract of	Class D	CAT5E	CAT6					
GENERAL Characteristics	Number of contacts		8						
CHARACTERISTICS	Contact Arrangement	21110111	RJ45						
	Termination	Printed Circuit B	Printed Circuit Board (PCB) - through hole, Feedthrough, IDC Terminal						
	Flammability		UL94V-0						
	Environmental	Com	plies with EU RoHS 2 Directive 2011/6	5/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	100MHz	250MHz					
	Ethernet Standard	10/100 BASE-T	1000 BASE-T	10GBASE-T					
	Transmission Spec.	EI/	A/ TIA568-C.2, ISO/IEC 11801, EN501	73					
	РоЕ	802.3at Type 2	Types 1 to 4 and IEC6	60603-7 compliant					
	LED Type		Round, single pole, indicator						
CLIMATIC CHARACTERISTICS	Protection Class - RJX - RJXS		IP40 (with EMI/RFI shield) IP54						
	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	tic, DSM Stanyl UL94V-0, 30% GF / PA	A66 30% GF					
	Flange (A type)	The	rmoplastic, DSM Stanyl UL94V-0, 30%	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						

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

**USB/HDMI Series** 

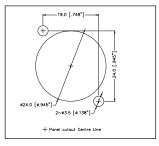


# **USB/HDMI SERIES**

- Features:
   Data connectors
- Feedthrough adaptorsUSB 3 Type A
- HDMI receptacles

**Options:** Nickel or Black Shell Finish

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION VARIATIONS PART NUMBER
	190 (748')	USB 3.0, Feedthrough adapter, D Flange, Nickel Finish  Type A / Type A  AC-USB3-AA
	PRONT VIEW (e.134") 5.8 (226") 13.6 (533") REAR VIEW	USB 3.0, Feedthrough adapter, D Flange, Black Finish
	19.0 (.748')  19.0 (.748')  10.0 (.88')  10.0 (.88')  10.0 (.88')  10.0 (.88')  10.0 (.88')  10.0 (.88')	HDMI, Feedthrough adapter, D Flange, Nickel Finish  HDMI / HDMI AC-HDMI-RR
	FRONT VIEW (e.134') 3.0 (1.219') REAR VIEW	HDMI, Feedthrough adapter, D Flange, Black Finish



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	onnector)	
CHARACTERISTICS	Typical Contact Resistance	≤10mΩ (Depends on Mating	Connector)	
	Insulation resistance (initial) After Damp Heat Test	$>2G\Omega$ $\geq 10^3 \text{ Meg } \Omega$		
	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	≥10N - ≤30N (depends on mating connector)		
CHARACTERISTICS	Cable O.D.	3mm to 7mm (0.118" to 0.275")		
	Mechanical Operations	1000 mating cycles		
	Weight - Cable Mount - Panel Mount	18g (0.039lb) 30g (0.066lb)		
MATERIALS	Connector Shell Material (Plugs)	Diecast Zinc Alloy EZD	No.3	
	Connector Shell Finish	Satin Nickel or Coloured F	Polyester	
	Insulators	PA66		
	Cable Bushing	Thermoplastic Polyure	thane	
	Contacts	Brass Alloy		
	Plating	Gold Flash		

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



# 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.

### **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 O.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 120 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, Cable O.D 3mm to 6.5mm (0.118" to 0.256")



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

### **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

- 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.

# 1/4" PLUG FEATURE MATRIX

Switchen State Sta Shifted the state of the state Little Barbara Comment of the Commen Julian Septe ilitidus ditis Weether! **FEATURES** PRECISION MACHINED CONTACTS X X X CENTER CONTACT | 1 pc. Center Contact X χ Х\* X X X 2 pc Press Fit Tip/Center Contact X X X X\* BARREL: **Machined Tube** Χ X Χ X Χ **Precision Extruded Tube** X X X **JAWS CABLE CLAMP** X X Χ X MIN. CABLE OD | Black Jaw: 3mm/0.118" X X X X X Purple Jaw: 6mm/0.236" X Purple Jaw: 5.5mm/0.216" Χ MAX. CABLE OD Black Jaw: 6mm/0.236" X X X X Black Jaw: 5.5mm/0.216" Purple Jaw: 7.5mm/0.295" X X X Purple Jaw: 6.5mm/0.255" X **CHUCK CABLE CLAMP** MIN. CABLE OD Black Chuck: 3.5mm/0.137" Χ MAX. CABLE OD Black Jaw: 7mm/0.275" X STANDARD CABLE CLAMP X X X X MIN. CABLE OD 7.5mm/0.295" 6mm/0.236" MAX. CABLE OD Χ 8mm/0.315" Χ 8.8mm/0.345" X 10.5mm/0.413" Χ **BACKSHELL FINISH** Satin Nickel X X X X X X Χ X Black 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 X Χ Χ Χ X X X

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

**T Series Plugs** 

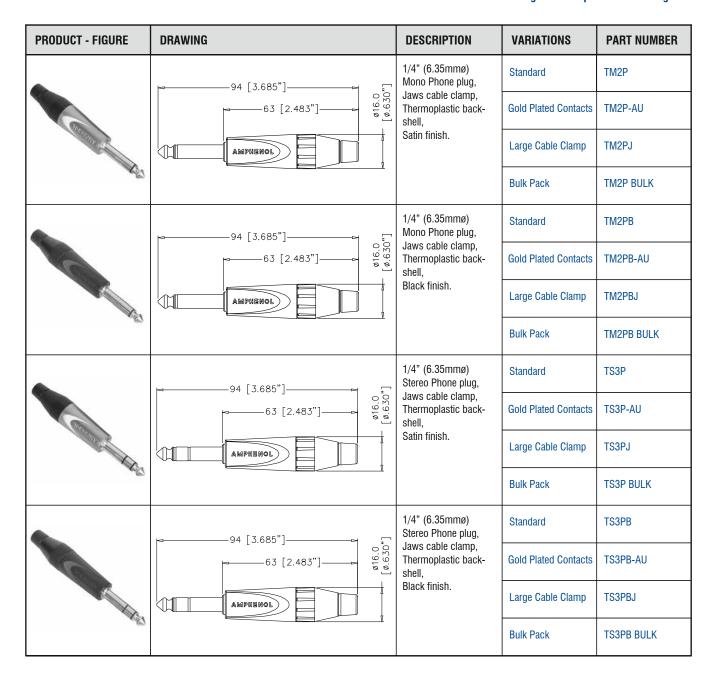


### T SERIES PLUGS

#### **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



### T Series Plugs

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	94 [3.685"]————————————————————————————————————	1/4" (6.35mmø) Mono Phone plug, Jaws cable clamp, Metal backshell, Satin finish.	Standard  Gold Plated Contacts	TM2PN TM2PN-AU
	AMPHENOL		Large Cable Clamp	TM2PNJ
***			Bulk Pack	TM2PN BULK
	615  2 \( \frac{1}{2} \)	1/4" (6.35mmø) Mono Phone plug, Right angle, Jaws cable clamp*, Thermoplastic back- shell	Standard	TM2RJ
	shell, Satin finish.	Gold Plated Contacts	TM2RJ-AU	
	615 [2 42]	1/4" (6.35mmø) Mono Phone plug, Right angle, Jaws cable clamp*,	Standard	TM2RBJ
		Thermoplastic back- shell, Black finish.	Gold Plated Contacts	TM2RBJ-AU
			Bulk Pack	TM2RBJ BULK
	615 [2.42]	1/4" (6.35mmø) Stereo Phone plug, Right angle, Jaws cable clamp*, Thermoplastic back- shell,	Standard	TS3RJ
	30 5 [120]	streil, Satin finish.	Gold Plated Contacts	TS3RJ-AU
	30 5   1 2 0   1   2   2   2   2   2   2   2   2   2	1/4" (6.35mmø) Stereo Phone plug, Right angle, Jaws cable clamp*, Thermoplastic back- shell,	Standard	TS3RBJ
		Black finish.	Gold Plated Contacts	TS3RBJ-AU

<sup>\*</sup>NOTE: Refer to page 120 for Jaws cable clamp specifications applicable to right angle connectors.

T Series (Jumbo) Plugs



# T SERIES (JUMBO) PLUGS

- 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.

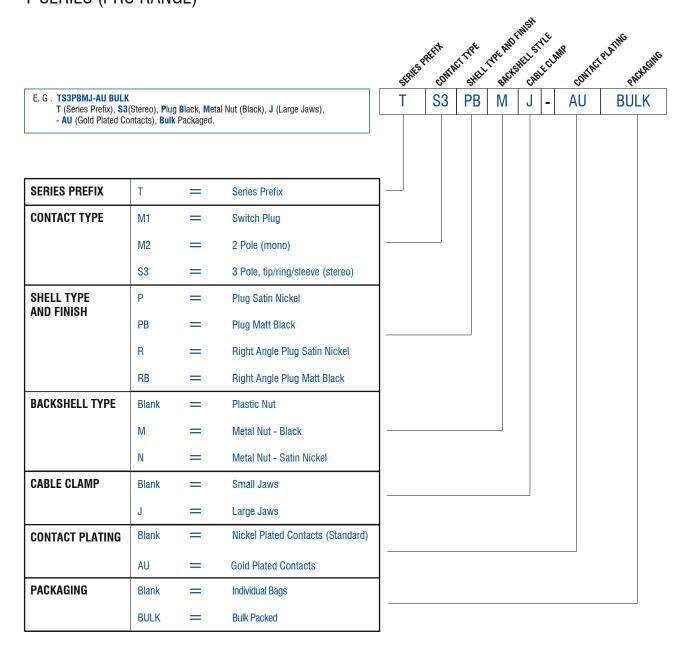
**Options:** Gold Contacts, Bulk Pack Specifications: Page 120

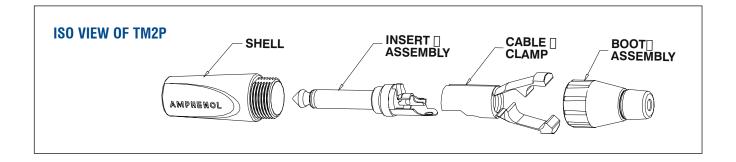
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		94 [3.690"]————————————————————————————————————	1/4" (6.35mmø) JUMBO Mono Phone plug, Thermoplastic back- shell, Satin finish.	Standard  Gold Plated Contacts	JM2P  JM2P-AU
		WINDERFORM TO THE STATE OF THE		Bulk Pack	JM2P BULK
		—94 [3.690"]————————————————————————————————————	1/4" (6.35mmø) JUMBO Mono Phone plug, Thermoplastic back-	Standard	JM2PB
		63 [2.489"]  AMPHENOL  63 [2.489"]  65 [2.489"]	shell, Black finish.	Gold Plated Contacts	JM2PB-AU
92	94 [3.690"] 63 [2.489"] 652.]	1/4" (6.35mmø) JUMBO Stereo Phone plug, Thermoplastic back- shell, Satin finish.	Standard	JS3P	
			Gold Plated Contacts	JS3P-AU	
	<b>-</b>	94 [3.690"]	1/4" (6.35mmø) JUMBO Stereo Phone plug, Thermoplastic back- shell,	Standard	JS3PB
	AMPHENOL 6:6 1.222.	Black finish.	Gold Plated Contacts	JS3PB-AU	
NOTE: Contact factory for avail	lahility of metal hack	rehalle			1

NOTE: Contact factory for availability of metal backshells.

### PART NUMBER BREAKDOWN

T-SERIES (PRO RANGE)





### **T-Series SwitchPlug**



### **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.

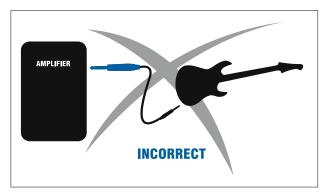
WARNING! For use with instrument (guitar) applications only. Part Number Breakdown: Page 115 Specifications: Page 120

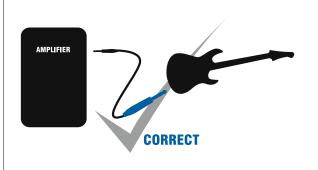
PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	15	1/4" (6.35mmø) Switch Phone plug, Jaws cable clamp, Thermoplastic	Standard	TM1P
Samuel Co.	98.6 [3.883"] 90 90 90 90 90 90 90 90 90 90 90 90 90	backshell, Satin finish	Gold Plated Contacts	TM1P-AU
			Large Cable Clamp	TM1PJ
	5	1/4" (6.35mmø) Switch Phone plug, Jaws cable clamp, Thermoplastic	Standard	TM1PB
47	98.6 [3.883"]	backshell,	Gold Plated Contacts	TM1PB-AU
			Large Cable Clamp	TM1PBJ
	615 [2.420"]	1/4" (6.35mmø) Switch Phone plug, Right angle, Jaws cable clamp*, Thermoplastic backshell,	Standard	TM1RJ*
	58 3 12 296"	Satin Finish	Gold Plated Contacts	TM1RJ-AU*
	615  2.420"	1/4" (6.35mmø) Switch Phone plug, Right angle, Jaws cable clamp*, Thermoplastic backshell,	Standard	TM1RBJ*
	58 3 [2 296"]	Black Finish	Gold Plated Contacts	TM1RBJ-AU*

<sup>\*</sup>NOTE: Refer to page Page 120 for Jaws cable clamp specifications applicable to right angle connectors.

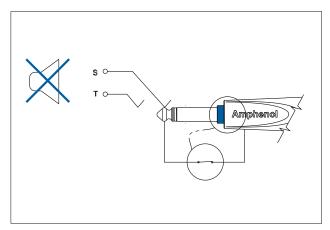
# **SwitchPlug - User Instruction**

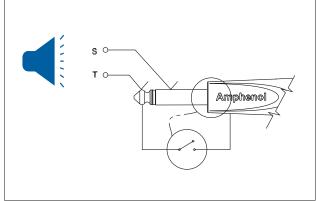






# SwitchPlug - Technology\*





\*US Patent No. 8,162,697

**Q Series Plugs** 



# **Q SERIES PLUGS**

#### Features:

- 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

**Options:** Gold Plated Contacts, Black Shell, Bulk Pack.

Specifications: Page 120

#### Clamp Info:

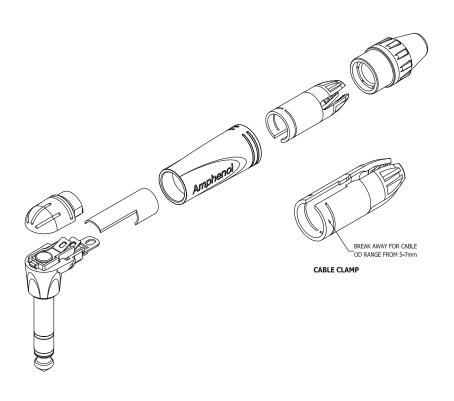


Standard Chuck clamp (Black), Cable O.D 3mm to 7mm (0.118" to 0.275")

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		[3.266*]———————————————————————————————————	1/4" (6.35mmø) Mono Phone plug, Chuck cable clamp, Molded boot, Satin Finish	Standard	QM2P
		[3.266*]———————————————————————————————————	1/4" (6.35mmø) Mono Phone plug, Chuck cable clamp, Molded boot, Black Finish	Gold Plated Contacts	QM2PB-AU
STA		[3.266*]———————————————————————————————————	1/4" (6.35mmø) Stereo Phone plug, Chuck cable clamp, Molded boot, Satin Finish	Standard	QS3P
att. A		[3.266*]———————————————————————————————————	1/4" (6.35mmø) Stereo Phone plug, Chuck cable clamp, Molded boot, Black Finish	Gold Plated Contacts	QS3PB-AU

Q Series Plugs

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	Amphenol 15	1/4" (6.35mmø) Mono Phone plug, Right angle Chuck cable clamp, Molded boot, Satin Finish	Standard	QM2R
	30.6 MAX.	1/4" (6.35mmø) Mono Phone plug, Right angle Chuck cable clamp, Molded boot, Black Finish	Gold Plated Contacts	QM2RB-AU
	Amphenol 466	1/4" (6.35mmø) Stereo Phone plug, Right angle Chuck cable clamp, Molded boot, Satin Finish	Standard	QS3R
	30.6 MAX.	1/4" (6.35mmø) Stereo Phone plug, Right angle Chuck cable clamp, Molded boot, Black Finish	Gold Plated Contacts	QS3RB-AU



# 1/4" PHONE PLUG TECHNICAL DATA

		Γ		VALUE	
		ļ	Straight	Right Angle	Jumbo
GENERAL	Number of Contacts		3 Pole Tip Ring Sleeve (Stereo)		
CHARACTERISTICS	Termination			Solder	
	Max. Wire G	lauge - Stranded Wire		2 Pole (Mono): AWG 16~1.5mm 3 Pole (Stereo): AWG 18~1mm	
	Flammability	y rating of insulating plastics		UL94V-0	
	Solderability	r, complies with		IEC 68-2-20	
	Environmen	tal	Complie	s with EU RoHS 2 Directive 201	1/65/EU
ELECTRICAL	Current Carı	rying Capacity	10	A (Depends on Mating Connector and Cat	ole)
CHARACTERISTICS	Typical Con	tact Resistance		Depends on Mating Connector	
	Insulation R	esistance (initial)		>2GΩ	
	After Damp Heat Test			≥1GΩ	
	Dioloctric Withstand Voltage			2 Pole : 1.5 kV dc	
	Dielectric Withstand Voltage			3 Pole : 1 kV dc	
CLIMATIC	Protection Class		IP40		
CHARACTERISTICS	Operating Temperature		-25°C to +75°C (-13°F to + 167°F)		
CHARACTERISTICS	Insertion and Withdrawal Force		≥10N - ≤30N		
	Weight <sup>1</sup>	Thermoplastic Backshell	28g (0.061lb)		
	weight	Metal Backshell		35g (0.077lb)	
	Typical Cable Retenton Force		22kg to 44kg (50lb to 100lb) - Dependent on cable material 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 C.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	sin - Black
	Boot / Back	shell	UL94 V-0 PBT Resin or Modified PPE Resin - Black or Metal CuZn <sup>39</sup> Pb <sup>3</sup>		
	Cable Clam	)	UL94	V-0 PBT Modified PPO Resin -	Black
	Cable Bushi	ng		Santoprene	
	Contacts / F	Plating		Brass/Ni or Au over 2 $\mu$ m Ni	

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



# **MUSICIAN SERIES II PLUGS**

#### 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.

Clamp Info:



Cable 0.D 6.5mm to 8mm (0.256" to 0.315")

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

**Specifications: Page 112** 

PRODUCT	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NO.
	79 [3.115"]———————————————————————————————————	1/4" (6.35mmø) Mono Phone plug, Diecast Shell, Satin finish, Flexible grommet.	Standard  Gold Plated Contacts	ACPM-KN
	79 [3.115"] 80 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1/4" (6.35mmø) Mono Phone plug, Diecast Shell, Black finish, Flexible grommet.	Standard  Gold Plated Contacts	ACPM-KB
	79 [3.115"]———————————————————————————————————	1/4" (6.35mmø) Stereo Phone plug, Diecast Shell, Satin finish, Flexible grommet.	Standard  Gold Plated Contacts	ACPS-KN-AU
	79 [3.115"]———————————————————————————————————	1/4" (6.35mmø) Stereo Phone plug, Diecast Shell, Black finish, Flexible grommet.	Standard  Gold Plated Contacts	ACPS-KB-AU

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

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### Musician Series II Plugs

PRODUCT	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NO.
	61 [2.402"]  Amphenol	1/4" (6.35mmø) Mono Phone plug, Right angle, Diecast Shell, Satin finish,	Standard	ACPM-TN
	[1.205"] MAX. [.197"]	Flexible grommet.	Gold Contacts	ACPM-TN-AU
	30.6 [		Bulk Pack	ACPM-TN BULK
	61 [2.402"]  Amphenol	1/4" (6.35mmø) Mono Phone plug, Right angle, Diecast Shell, Black finish,	Standard	ACPM-TB
	[1.205"] MAX. [.197"]— 49.3 [1.941"]	Black finish, Flexible grommet.	Gold Contacts	ACPM-TB-AU
	30.6 [1.205"] MAX. 5.0 [.197"]—		Bulk Pack	ACPM-TB BULK
	61 [2.402"]  Amphenol	1/4" (6.35mmø) Stereo Phone plug, Right angle, Diecast Shell, Satin finish,	Standard	ACPS-TN
	[1.205"] MAX. [.197"]	Flexible grommet.	Gold Contacts	ACPS-TN-AU
	30.6 [1.2 MAX. 5.0 [.19]		Bulk Pack	ACPS-TN BULK
	61 [2.402"]  Amphenol	1/4" (6.35mmø) Stereo Phone plug, Right angle, Diecast Shell,	Standard	ACPS-TB
	[1.205"] MAX. [.197"]————————————————————————————————————	Black finish, Flexible grommet.	Gold Contacts	ACPS-TB-AU
Who is	30.6 [1.205"] MAX. 5.0 [.197"]		Bulk Pack	ACPS-TB BULK

### **Musician Series II Plugs**



#### 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.

**Specifications: Page 134** 

Precision machined contacts.
Standard or Bulk packaging.
Cable OD Entry to 6.5mm (0.256")

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

#### Clamp Info:



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

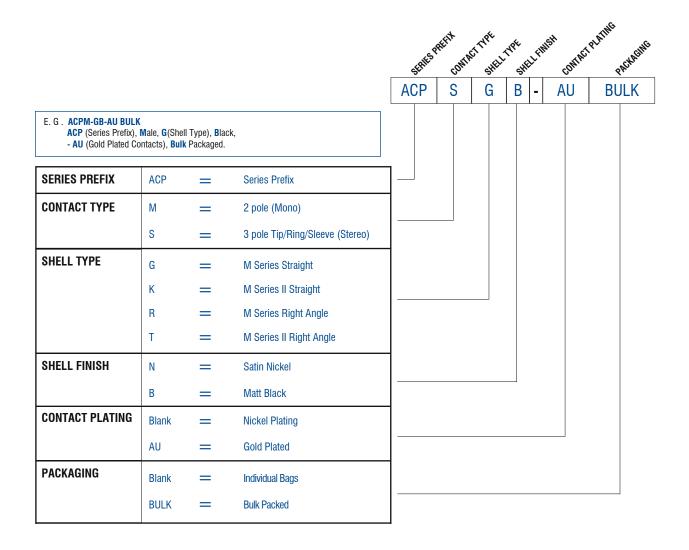
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	9	49 [1.922"]———————————————————————————————————	1/4" (6.35mmø) Mono Phone plug, Diecast Shell, Satin finish.	Standard	ACPM-GN
		Amphenol	Flexible grommet.	Gold Plated Contacts	ACPM-GN-AU
V <sub>a</sub>				Bulk Pack	ACPM-GN BULK
•	Ψ	79 [3.115"]———————————————————————————————————	1/4" (6.35mmø) Mono Phone plug, Diecast Shell, Black finish,	Standard	ACPM-GB
	Amphenol	Flexible grommet.	Gold Plated Contacts	ACPM-GB-AU	
13			Bulk Pack	ACPM-GB BULK	
	-	— 79 [3.115"]———————————————————————————————————	1/4" (6.35mmø) Stereo Phone plug, Diecast Shell,	Standard	ACPS-GN
	Amphenoi	Satin finish, Flexible grommet.	Gold Plated Contacts	ACPS-GN-AU	
63			Bulk Pack	ACPS-GN BULK	
	79 [3.115"]	1/4" (6.35mmø) Stereo Phone plug, Diecast Shell, Black finish, Flexible grommet.	Standard	ACPS-GB	
			Gold Plated Contacts	ACPS-GB-AU	
				Bulk Pack	ACPS-GB BULK

### Musician Series II Plugs

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	TYPE	PART NUMBER
	And	61 [2.402*]	1/4" (6.35mmø) Mono Phone plug, Right angle, Diecast Shell, Satin finish,	Standard	ACPM-RN
G.	1308	[.197' 49.3	Flexible grommet.	Gold contacts	ACPM-RN-AU
		0.00		Bulk Pack	ACPM-RN BULK
	61 [2.402*]  Ampheno  (1.202)  (1.206)  (1.206)  (1.206)  (1.207)	1/4" (6.35mmø) Mono Phone plug, Right angle, Diecast	Standard	ACPM-RB	
		Shell, Black finish, Flexible grommet.	Gold contacts	ACPM-RB-AU	
			Bulk Pack	ACPM-RB BULK	
	90.6 [1.205] WAX. WAX. 9.0 6.1 [1.205] 1.904] 1.904] 1.904]	1/4" (6.35mmø) Stereo Phone plug, Right angle, Diecast Shell, Satin finish, Flexible grommet.	Standard	ACPS-RN	
- C			Gold contacts	ACPS-RN-AU	
The same of the sa			Bulk Pack	ACPS-RN BULK	
	61 [2.402"]  Amphanol  1 6 6 1 [2.402"]  Amphanol  1 7 6 6 1 [2.402"]	1/4" (6.35mmø) Ste- reo Phone plug, Right angle, Diecast Shell,	Standard	ACPS-RB	
		L. 19. 1.9. 1.9. 1.9. 1.9. 1.9. 1.9. 1.9	Black finish, Flexible grommet.	Gold contacts	ACPS-RB-AU
The same of the sa	30.6 [			Bulk Pack	ACPS-RB BULK

### PART NUMBER BREAKDOWN

M / M SERIES II (MUSICIAN RANGE)



#### 1/4" / 3.5mm Phone Jack Connectors



# 1/4" / 3.5MM 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.

#### **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 connectionsHalf, Full or No threads
- · Grounded or Isolated Jacks

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



1/4" Gripper - Grounding points



1/4" Shielding Plate

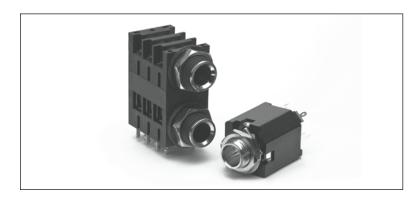
### **Ordering Codes**

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.
- 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.

### 1/4" / 3.5mm Phone Jack Connectors



#### Features:

- 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 132** Panel Cutouts: Page 131 **PCB Footprints: Page 133 Specifications: Page 135** 

	PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
3.51	MM PHONE JACKS	= 12 (-250.] = (-250.]		3.5mm Jack, Horizontal PCB, Plastic housing, Metal entry bore	Mono	ACJM-NH35
	11/10	3 [.118"]→ → 26.4 [1.039	6.8 [.267*]	Metal entry Dole	Stereo	ACJS-NH35
	200	3"]		3.5mm Jack, Vertical	Refer to Schematic	ACJM-NV35-2
	1	24 [.943*] 23 [.896*] 29 [.896*]	•	PCB mount, Needle eye contacts, Plastic	Chart on page 132	ACJM-NV35-2S
			25.00 m	housing, Metal entry bore		ACJS-NV35-3
	6	27 [1.057"]=	16	Dore		ACJS-NV35-3S
		اجاً 1.195] الم	<sup>-⊶</sup> [.620"] <sup>la-</sup>			ACJS-NV35-5
	300	24 [.939*]   <del></del> NET.	AL WASHER	3.5mm Jack, Vertical	Refer to Schematic	ACJM-MV35-2
		4 [.159"] — 13n0.35mm THICK [1620"] — 15 [.6	).35mm THICK 16	PCB mount, Needle eye contacts, Plastic housing, Metal thread	Chart on page 132	ACJM-MV35-2S
	C.		10 [0.39*] 20 20 20 20 20 20 20 20 20 20 20 20 20			ACJS-MV35-3
	-100		and entry bore		ACJS-MV35-3S	
		•	VIOT 2.5mm THICK			ACJS-MV35-5
		- 33 [1.318"] 8.8 [.346"] 1	16.000 1 4.00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3.5mm / 1/4" (6.35mmø) Dual Phone Jack, (Piggyback),	Dual	ACJM-MHD985
	0	3 [.106*] 	1, 2, 1, 1, 2, 2, 3, 4, 4, 5, 5, 4, 5, 4, 5, 5, 4, 5, 4, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	Horizontal PCB, Plastic housing, Metal nut and entry bore	Stereo	ACJS-MHD985
		35 [1.3   1-24 [.93	1	3.5mm / 1/4"	Refer to Schematic	ACJM-MVD985-2
	7	-24 [.9:		(6.35mmØ) Dual Phone Jack, Vertical	Chart on page 132	ACJM-MVD985-2S
	200		6 [241]-	PCB mount, Needle eye contacts, Plastic		ACJS-MVD985-3
	-	SIDE VIEW 24 [.94	17"]	housing, Metal nut and entry bore		ACJS-MVD985-3S
		one j 5010		ACJS-MVD985-5		
1/4"	PHONE JACKS HORI	NE JACKS HORIZONTAL		1/4" (6.35mmø) Phone Jack, Horizontal Snap-fit PCB, Plastic	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

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
am	9.1 [.358*]		1/4" (6.35mmø) Phone Jack, Horizontal Snap-fit PCB, Plastic housing, Metal nut and	Mono	ACJM-MHDR
* (CO	4.50 [.177] TYP [.256]	THE TOTAL PROPERTY OF	entry bore	Stereo	ACJS-MHDR
Part .	8.6 [.339]	3.0 [1.299*]— ——————————————————————————————————	1/4" (6.35mmø) Phone Jack, Horizontal Snap-fit PCB, Plastic housing, Metal thread,	Mono	ACJM-MHDRM
116	4.50 [.177] 1.477 [.256]	╓╫╌╫╌┦╌╴ <del>╻</del> ┎ <del>╢╒╌┩╌┩╒</del>	nut, washer and entry bore	Stereo	ACJS-MHDRM
de	500"]	24.3 [.957]	1/4" (6.35mmø) Offset Jack, Horizontal PCB mount, Plastic housing and entry bore with	Refer to Schematic Chart on page 132	ACJM-HHOP
450	6.4 [.253"] 15.8 [.620"]	8.9 21.36 [.841"]	Half thread. Supplied without mounting hardware.		ACJS-HHOP
Elle.	6.4 [.253"] 15.8 [.620"] 15.8	24.3 [.957*]==	1/4" (6.35mmø) Offset Jack, Horizontal PCB mount, Plastic housing and entry bore with	Refer to Schematic Chart on page 132	ACJM-HHOP-1
- All Co		8.9 21.36 [.841"]	Half thread. Supplied without mounting hardware.		ACJS-HHOP-1
	[.625] [.625] [.625] [.626]	. 24.3 [* [.957"] **	1/4" (6.35mmø) Offset Jack, Horizontal PCB mount, Plastic housing, thread and entry bore	Mono - Plastic Nut	ACJM-PHOP
				Mono - Metal Nut	ACJM-MHOP
THE CO				Stereo - Plastic Nut	ACJS-PHOP
				Stereo - Metal Nut	ACJS-MHOP
A.	15.8   16.2	24.3 [.957*]	1/4" (6.35mmø) Offset Jack, Horizontal PCB	Refer to Schematic Chart on Page 110	ACJM-PHOP-1
			mount, Plastic housing, thread and entry bore.	PHOP - Denotes Plastic Nut MHOP - Denotes	ACJM-MHOP-1
ALL		8.9 [.350"] 21.36 [.841"]	Non-switching sleeve contact with separate		ACJS-PHOP-1
	[.620"] - 22		grounding to panel.	Metal Nut	ACJS-MHOP-1
Alle 2	12.7 [.500']	24.8 [.976"]—	1/4" (6.35mmø) Offset Jack, Horizontal PCB mount, Plastic housing, Metal thread	Mono - Metal Nut	ACJM-MHOM
	6.4 [.253"] 15.8 [.620"] 21.8	8.2 0.5 [.020"] 21.85 [.860"]	and entry bore with Chassis ground con- nection	Stereo - Metal Nut	ACJS-MHOM
Service .	24.8 [.976"]  8.0 [.315"]  (.209)  (.20)  (.		1/4" (6.35mmø) Jack, Horizontal PCB mount, Plastic housing with metal insert	Mono - Plastic Nut	ACJM - PH
			with motal filodit	Mono - Metal Nut	ACJM - MH

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### 1/4" / 3.5mm Phone Jack Connectors

PRODUCT - FIGURE	DRAWING	Dime	nsions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
El constitution de la constituti	8.0 [.315"] ——24.8 [.976"] ——24.8 [.976"]		250 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/4" (6.35mmø) Jack, Horizontal PCB mount, Plastic housing with metal insert	Stereo - Plastic Nut	ACJS - PH
77000	4.00 1.157]	<u>(thall-all-all-all-all-all-all-all-all-all</u>		with model moore	Stereo - Metal Nut	ACJS - MH
	E			1/4" (6.35mmø) Jack, Horizontal	Mono - Plastic Nut	ACJM-PHR
	8.0 [.315"]	.602	28.5	Snap-fit PCB mount, Plastic housing with	Mono - Metal Nut	ACJM-MHR
77.00				metal insert	Stereo - Plastic Nut	ACJS-PHR
	4.00 [.157" TYP				Stereo - Metal Nut	ACJS-MHR
	ຸ້າ ວ <u>້</u> ນ 8.0 [.315"]	24.8 [.976"]	_	1/4" (6.35mmø) Jack, Combination	Mono - Plastic Nut	ACJM-PC
Le	8.0 [.315"]		23.5	Horizontal PCB and	Mono - Metal Nut	ACJM-MC
1110				Solder lug, Plastic housing with metal insert	Stereo - Plastic Nut	ACJS-PC
60	8.50 [.335 TYP				Stereo - Metal Nut	ACJS-MC
		+24.8 [.976"]+ <del>-</del> -	15.3	1/4" (6.35mmø) Jack, Solder Lug, Plastic housing with metal	Mono - Plastic Nut	ACJM-PHS
	8.0 (Signature)				Mono - Metal Nut	ACJM-MHS
				insert	Stereo - Plastic Nut	ACJS-PHS
					Stereo - Metal Nut	ACJS-MHS
922110	0.8 1 11.00 [.433*]	_ +	2.10 [1.264*] 	1/4" (6.35mmø) Jack, Solder Lug, Plastic housing and Bezel with threaded Metal nut.	Mono	ACJM-IHS
Con C	20.00	\$ <u>3.</u> f	4.0 [.157"] TYP	anoddod motal nda	Stereo	ACJS-IHS
	8.0 [.316*]	-33.5 [1.317"]	8871	1/4" (6.35mmø) Jack, Horizontal PCB mount, Plastic housing and Bezel with threaded	Mono	ACJM-IH
	00'7 00'7			Metal nut.	Stereo	ACJS-IH
4" PHONE JACKS HORI		9.1 - 33.5 [1.319*] - 358*]		1/4" (6.35mmø) Dual Phone Jack (Compact Piggyback), Horizontal Snap-fit PCB, Plastic	Mono	ACJM-MHDC
in the Co	450 (1777) 179 16.51 16.51 23.05		((ws))	housing, Metal nut and entry bore	Stereo	ACJS-MHDC
Ma	350 (1299°) (359°) (		081	1/4"(6.35mmø) Dual Phone Jack (Compact Piggyback), Horizontal Snap-fit PCB, Plastic	Mono	ACJM-MHDCM
				housing, Metal thread, nut and entry bore	Stereo	ACJS-MHDCM

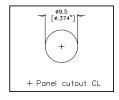
PRODUCT - FIGURE	DRAWING	Dim	ensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
8400	3.8 [1.250] —	9.1 (.359*)	(6.50 to 10.00 to 10.	1/4" (6.35mmø) Dual Phone Jack (Piggyback) Horizontal Snap-fit PCB, Plastic	Mono	ACJM-MHD
FF (60	1.0.7.1. 1.0.7.1.1. 1.0.7.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		1	housing, Metal nut and entry bore	Stereo	ACJS-MHD
Aller.	31.8 [1.250 <sup>7</sup> ] + (1.250 <sup>7</sup> ] + (1.250 <sup>7</sup> ] + (1.250 <sup>7</sup> ] + (1.250 <sup>7</sup> ] + (1.750 <sup>7</sup> ]	9.1 -33.5 [1.319"]	<b>1</b>	1/4"(6.35mmø) Dual Phone Jack (Pig- gyback) Shielding plate,	Mono	ACJM-MHDE
100	4.50 (1777)	6.50		Horizontal Snap-fit PCB, Plastic housing, Metal nut and entry bore	Stereo	ACJS-MHDE
Rec.	91.8 [1.250*]—   (1.90*)   (1.90*)   (1.90*)	9,1 -33.5 [1,319"]	<b>II I I I I I I I I I</b>	1/4" (6.35mmø) Dual Phone Jack (Pig- gyback), Horizontal	Mono	ACJM-MHDM
	4.50 [.1777]	6.86 (-256 <sup>-</sup> )	# 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Snap-fit PCB, Plastic housing, Metal thread, nut, washer and entry bore	Stereo	ACJS-MHDM
all to				1/4"(6.35mmø) Dual Phone Jack (Piggy- back), Shielding plate	Mono	ACJM-MHDEM
	1,727 1,727	6.50 6.50 1.286 1.100 1.286		Horizontal Snap-fit PCB, Plastic housing, Metal thread, nut and entry bore	Stereo	ACJS-MHDEM
/4" PHONE JACKS VER	TICAL			1/4" (6.35mmØ) Jack,	Refer to Schematic	ACJM-PVB-2
all a	14.5 1 [.571"]			Vertical PCB mount, Plastic housing,	Chart on page 132	ACJM-PVB-2S
	(5.0 [.59f"]			nut and entry bore		ACJS-PVB-3
	12.8	1,20-1,50 [0.047*-0.09				ACJS-PVB-3S
*60	[.504"]		24.0 [.945*]			ACJS-PVB-5
	7 [ 290*] .	16	0.5 [ 0.20*]	1/4" (6.35mmø) Jack, Vertical PCB mount,	Refer to Schematic	ACJM-MIV-2
1	7 [.280"] [.622*] 0.5 [.020"]		Needle eye contacts,	Chart on page 132	ACJM-MIV-2S	
(0)		16 16 16 1.622]	13 [.512*]	Plastic thread, Metal nut and insert		ACJS-MIV-3
	-3.5 [,138*] -24 [,945*]⊳	1 1	î 2 [.087*] <del>-   -</del>			ACJS-MIV-3S
						ACJS-MIV-5
8	24 [.945"] <del>-</del>			1/4" (6.35mmø) Jack, Vertical PCB mount,	Refer to Schematic Chart on page 132	ACJM-MN-2
1		7 [.276"]		Needle eye contacts,	Shart on page 102	ACJS-MN-3
			16.0	Star washer, Metal nut and insert		ACJM-MN-2S
10		Cut				ACJS-MN-3S
S. A.				1/4" (C 05	Defects Oaks seek	ACJS-MN-5
8	→ 24 [.945"]			1/4" (6.35mmø) Jack, Vertical PCB	Refer to Schematic Chart on page 132	ACJM-MV-2
1	7 [.276"]		mount, Metal nut	Share on page 102	ACJC MV 2	
	-{d E		91 9.	and modit		ACJS-MV-3
					ACJS-MV-3S	
						ACJS-MV-5

1/4" / 3.5mm Phone Jack Connectors

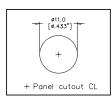
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		16 	1/4" (6.35mmø)	Refer to Schematic	ACJM-MVS-2
	35,5 [1.398"] [.622"]	1.022 ]	Jack, Solder Lug, Metal nut	Chart on Page 110	ACJM-MVS-2S
Ma		[.622"]	and insert		ACJS-MVS-3
-160	φ 5	- <del> </del>			ACJS-MVS-3S
	_	_			ACJS-MVS-5

## **PANEL CUTOUTS**

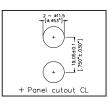
#### -FRONT VIEW



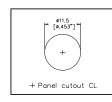
ACJM-MV ACJS-MV ACJM-MN-2 ACJS-MN-3 ACJM-MN-2S ACJS-MN-5 ACJM-MIV ACJM-MIV ACJM-MVS ACJS-MVS



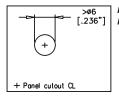
ACJM/S-PH ACJM/S-MH ACJM/S-PC ACJM/S-MC ACJM/S-PHR ACJM/S-PHS ACJM/S-MHS



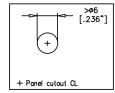
ACJM-MHD ACJS-MHD ACJM-MHDE ACJS-MHDE



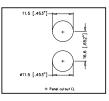
ACJM-MHDR ACJS-MHDR ACJS-HHDR



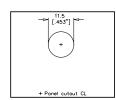
ACJM-NH35 ACJS-NH35



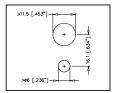
ACJM-NV35-2 ACJM-NV35-2S ACJS-NV-35-3 ACJS-NV-35-3 ACJM-NV35-2 ACJM-MV35-2 ACJM-W35-3 ACJS-MV-35-3 ACJS-MV-35-3 ACJS-MV-35-5



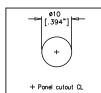
ACJS-MHDC ACJM-MHDC



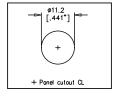
ACJS-IH ACJM-IH ACJS-IHS ACJM-IHS



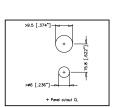
ACJS-MHD985 ACJM-MHD985



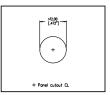
ACJS-MHOM ACJM-MHOM



ACJS-MHOP ACJS-PHOP ACJM-PHOP ACJM-PHOP-1 ACJS-HHOP-1 ACJM-PHOP-1 ACJM-PHOP-1 ACJM-HOP-1 ACJM-HOP-1 ACJM-HOP-0 ACJM-HOP-1



ACJS-MVD985 ACJM-MVD985



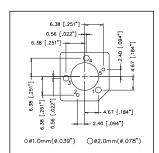
ACJM-PVB-2 ACJM-PVB-2S ACJS-PVB-3 ACJS-PVB-3S ACJS-PVB-5

# **SCHEMATIC CHART**

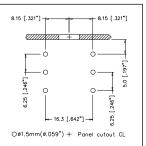
PART NO.	ACJM-MV35-2 ACJM-MN-2 ACJM-NV35-2 ACJM-PVB-2 ACJM-MV-2 ACJM-MVS-2 ACJM-MIV-2	ACJM-MV35-2S ACJM-MN-2S ACJM-NV35-2S ACJM-PVB-2S ACJM-MV-2S ACJM-MVS-2S ACJM-MVS-2S	ACJS-MV35-3 ACJS-MN-3 ACJS-NV35-3 ACJS-PVB-3 ACJS-MV-3 ACJS-MIV-3	ACJS-MV35-3S ACJS-MN-3S ACJS-NV35-3S ACJS-PVB-3S ACJS-MV-3S ACJS-MVS-3S ACJS-MIV-3S	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	2 \3 1	3 1	2 \3	5 1 2 3 1
			Γ		Γ
PART NO.	ACJM-MVD985-2	ACJM-MVD985-2S	ACJS-MVD985-3	ACJS-MVD985-3S	ACJS-MVD985-5
SCHEMATIC	^	7 % 8 % 6 6 C 2 % 3 % 1	0 9 0 8 0 6 0 6 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	9 0 7 0 8 0 6 0 4 0 2 0 3 0 1	9 010 7 10 8 06 06
PART NO.	ACJM-HHOP-1 ACJM-PHOP-1 ACJM-MHOP-1	ACJS-HHOP-1 ACJS-PHOP-1 ACJS-MHOP-1	ACJM-HHOP ACJM-PHOP ACJM-MHOP	ACJS-HHOP ACJS-PHOP ACJS-MHOP	
GENERAL SCHEMATIC	TX T S G	R RN TN T S G	TN T S SN	RN TN T S SN	

### **PCB FOOTPRINT**

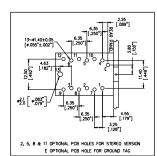
#### - CONNECTOR SIDE OF PCB



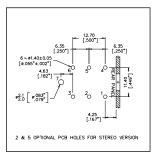
ACJM-MV ACJS-MV ACJM-MN-2 ACJS-MN-3 ACJM-MN-2S ACJS-MN-3S ACJS-MN-5 ACJM-NV35-XX ACJM-MV35-XX ACJS-NV35-XX ACJS-MV35-XX ACJM-MIV-2 ACJM-MIV-2S ACJS-MIV-3 ACJS-MIV-3S ACJS-MIV-5



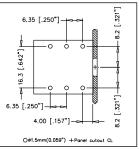
ACJM-PH ACJM-MH ACJS-PH ACJS-MH ACJM-PC ACJM-MC ACJS-PC ACJS-MC



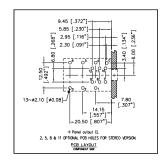
ACJM-MHD
ACJS-MHD
ACJM-MHDE
ACJM-MHDE
ACJM-MHDEM
ACJM-MHDEM
ACJM-MHDC
ACJS-MHDCM
ACJM-MHDCM
ACJM-MHDCM
ACJM-MHDCM
ACJM-MHDCM
ACJM-MHDM
ACJM-MHDM
ACJM-MHDM



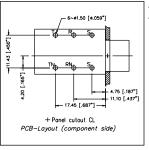
ACJM-MHDR ACJS-MHDR ACJM-PHR ACJM-MHR ACJS-PHR ACJS-MHR ACJM-HHDR ACJS-HHDR ACJS-MHDRM ACJS-MHDRM



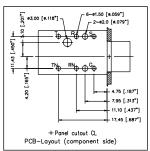
ACJS-IH ACJM-IH



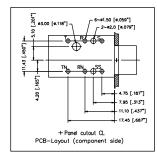
ACJS-MHD985 ACJM-MHD985



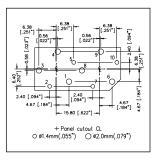
ACJS-MHOM ACJM-MHOM



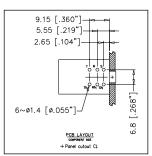
ACJS-MHOP-1 ACJS-PHOP-1 ACJS-HHOP-1 ACJM-MHOP-1 ACJM-PHOP-1 ACJM-HHOP-1



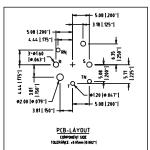
ACJS-MHOP ACJS-PHOP ACJM-PHOP ACJM-HHOP ACJS-HHOP



ACJS-MVD985 ACJM-MVD985



ACJS-NH35 ACJM-NH35



ACJM-PVB-2 ACJM-PVB-2S ACJS-PVB-3 ACJS-PVB-3S ACJS-PVB-5

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

# 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 or UL94-HB					
	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	>2GΩ ≥10 <sup>3</sup> Meg Ω					
	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 10,000 cycles					
	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>&</sup>lt;sup>1</sup>Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.

K Series Plugs (3.5mm)

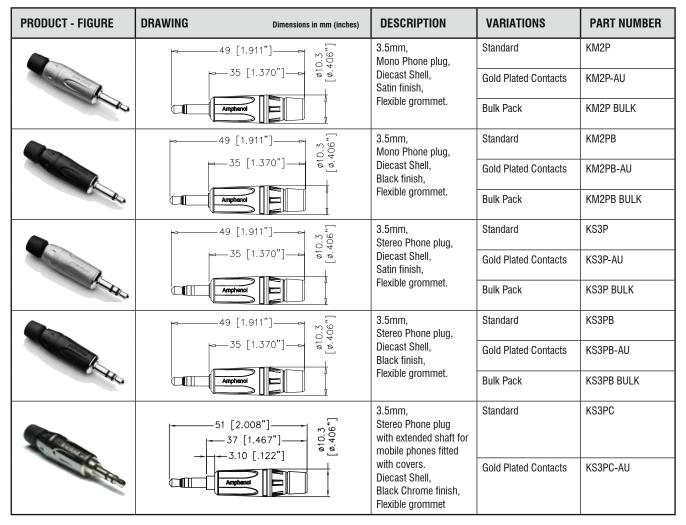


# K SERIES PLUGS (3.5MM)

#### **Features:**

- · Mono or TRS (Stereo).
- · AX Series inspired shell design.
- Suits Cable O.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.

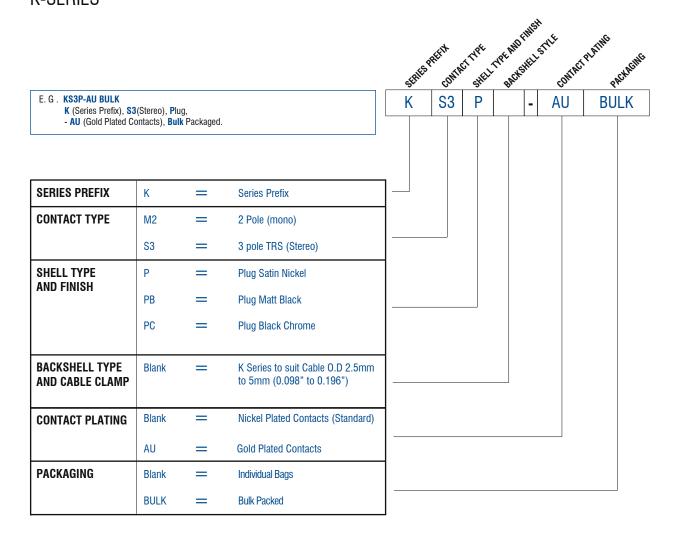
Options: Black Shell, Gold contacts.

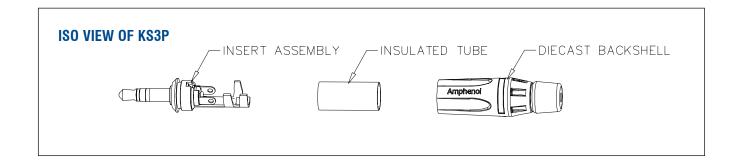


K Series Plugs (3.5mm)

### 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	≤20mΩ (Depends on Mating Connector and Cable)
	Insulation resistance (initial) After Damp Heat Test	$>$ 200M $\Omega$ $>$ 100M $\Omega$
	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 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.

#### **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 O.D 2.5mm to 5mm
- · Stylised shell design
- · Flexible cable grommet
- · Metal cable clamp
- · Nickel or Gold contact plating
- · Satin 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")

### **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.
- 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 & Sockets**

### **RCA Series**



# **RCA SERIES**

#### Features:

- · Stylish design
- Flexible grommet cable protectionRobust diecast shell
- Gold plated contacts
  Colour coded
  Good solderability

- Quick and easy assembly Panel mount utilises standard 'D' type housing

Part Number Breakdown: Page 141

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
***	Ĺ.	RCA Plug, Diecast	Red	ACPR-RED
	62 [2.445"]	Shell, Gold plated contacts, Coloured	Black	ACPR-BLK
W.	02 [2.743 ] 05 [6	finish, Flexible coloured grommet	Yellow	ACPR-YEL
	0	grommet	White	ACPR-WHT
	Amphenol		Blue	ACPR-BLU
-6			Green	ACPR-GRN
	3."]	RCA Plug, Diecast	Satin / Red	ACPR-SRD
	62 [2.445"] <del>'</del>	Shell, Gold plated contacts, Satin finish,	Satin / Black	ACPR-SBK
The state of the s	62 [2.445"]———————————————————————————————————	Flexible coloured arommet	Satin / Yellow	ACPR-SYL
	S	grommer	Satin / White	ACPR-SWH
	Amphenol		Satin / Blue	ACPR-SBL
-			Satin / Green	ACPR-SGR
	54 [2.130"]	RCA Jack, Diecast Shell, Gold plated contacts, Coloured	Red	ACJR-RED
			Black	ACJR-BLK
		finish, Flexible coloured	Yellow	ACJR-YEL
		grommet	White	ACJR-WHT
1			Blue	ACJR-BLU
			Green	ACJR-GRN
		RCA Jack, Diecast Shell, Gold plated contacts, Satin finish,	Satin / Red	ACJR-SRD
	54 [2.130"] — — — — — — — — — — — — — — — — — — —		Satin / Black	ACJR-SBK
The same of the sa		Flexible coloured grommet	Satin / Yellow	ACJR-SYL
	6	grommer	Satin / White	ACJR-SWH
	Amphenol		Satin / Blue	ACJR-SBL
			Satin / Green	ACJR-SGR
	50.5 [1.099"]	RCA Plug, Shortened	Red	ACPL-CRD
500	50.5 [1.988"] 87.6 ° ° 5.45 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	Diecast Shell, Gold plated contacts, Black	Black	ACPL-CBK
	18	Chrome finish, Flexible coloured	Yellow	ACPL-CYL
		grommet	White	ACPL-CWH
1	Amphenol		Blue	ACPL-CBL
			Green	ACPL-CGR

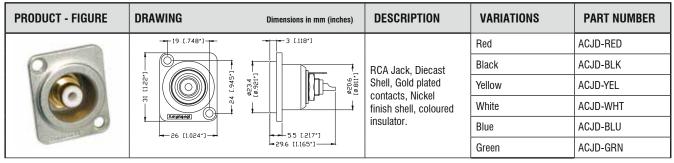
NOTE: RCA Series comply with EU RoHS 2 Directive 2011/65/EU

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SHELLFINGH

**BULK** 

**RED** 



AC

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.

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
	CBK	=	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
			our of insulator only on shell type D, nell. Shell finish is Nickel.
PACKAGING	Blank	=	Individual Bags
	BULK	=	Bulk Packed

# **RCA TECHNICAL DATA**

		VAI	LUE			
GENERAL	Number of Contacts	-	2	7		
CHARACTERISTICS	Termination	Sol	lder	7		
	Max. Wire Gauge - Stranded Wire	AWG 14 - 2.5mm <sup>2</sup>				
	Flammability rating of insulating plastics	UL94V-0				
	Solderability, complies with	IEC 68	3-2-20	1		
	Environmental	Complies with EU RoHS	2 Directive 2011/65/EU	1		
ELECTRICAL	Current Carrying Capacity	10A (Depends on Mating Connector)				
CHARACTERISTICS	Typical Contact Resistance	≤10mΩ (Depends o	on Mating Connector)	1		
	Insulation resistance (initial) After Damp Heat Test	>2GΩ ≥ 10³ Meg Ω				
	Dielectric Strength	1500	) V dc	1		
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.	ACPL with grommet without grommet	3mm to 6.5mm (0.118" to 0.255") 3mm to 8.5mm (0.118" to 0.334")			
		ACPR with grommet without grommet	3mm to 7mm (0.118"to 0.275") 3mm to 8.5mm (0.118" to 0.334")			
	Mechanical Operations	500 mati	ng cycles	1		
	Weight - Cable Mount - Panel Mount	18g (0 30g (0				
MATERIALS	Connector Shell Material (Plugs)	Diecast Zinc A	lloy EZDA No.3			
	Connector Shell Finish	Satin Nickel or C	oloured Polyester			
	Insulators	PA	66	7		
	Cable Bushing	Thermoplastic	Polyurethane	7		
	Contacts	Brass	Alloy	1		
	Plating	Gold	Flash			

<sup>&</sup>lt;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.

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- 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

Options: NPT threaded backshells. Crimp Tooling: Page 147
Specifications: Page 148 Part Number Breakdown: Page 147
Wiring Information: Page 141

PRODUCT - FIGURE	Dimensions in mm (inches)  DRAWING		Dimensions in mm (inches)		PINS	PART NUMBER	PART NUMBER
Phoboti - Fluone			В	PG	LINO	PANI NUMBEN	With Dustcap
	Straight cable plug with socket	40.5	160				
<b>A</b>	contacts, Black finish, supplied	(1.60)	(6.30)	11	13	MP-4106-13S	MP-4106-13S-C
	complete with contacts.	44	171				
THE STATE OF THE S		(1.73)	(6.73)	13.5	19	MP-4106-19S	MP-4106-19S-C
		46.6	193				
		(1.83)	(7.60)	16	25	MP-4106-25S	MP-4106-25S-C
		54.3	210				
3111	PG-/ 13, 19, 25, 37 and 54 contact type	(2.14)	(8.26)	21	37	MP-4106-37S	MP-4106-37S-C
	D. D. D. D. D.	60.1	210				
		(2.36)	(8.26)	21	54	MP-4106-54S	MP-4106-54S-C
	V O	73.3	137				
		(2.88)	(5.40)	29	85	MP-4106-85S	MP-4106-85S-C
	85 and 150 contact type		145				
			(5.70)	36	150	MP-4106-150S	MP-4106-150S-0
	Cable connecting receptacle with pin contacts, black finish, supplied complete with contacts.		160				
			(6.30)	11	13	MP-4101-13P	MP-4101-13P-C
			171				
		(1.62)	(6.73)	13.5	19	MP-4101-19P	MP-4101-19P-C
The same of the sa	В	41.5	193				
		(1.63)	(7.60)	16	25	MP-4101-25P	MP-4101-25P-C
111			210				
1111/	PG	(2.00)	(8.26)	21	37	MP-4101-37P	MP-4101-37P-C
	13, 19, 25, 37 and 54 contact type	57.1	210				
	B	(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
	85 and 150 contact type	70	145				
	os and iso contact type	(2.75)	(5.70)	36	150	MP-4101-150P	MP-4101-150P-0

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

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### **Multipin Connectors**

MP-41 Series

	Dimensions in mm (inches)		Dir	mensions i	in mm (inc	hes)				DADT NUMBER
PRODUCT - FIGURE	DRAWING	A	В	С	D	E	F	PINS	PART NUMBER	PART NUMBER With Dustcap
	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
	with contacts.	41	31.8	3.2	44	38.8				
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		(1.61)	(1.25)	(0.13)	(1.73)	(1.53)	N/A	19	MP-4164-19S	MP-4164-19S-C
2000000		44.5	34.9	3.73	48.51	40.6	NI/A	0.5	MD 4104 050	MP-4164-25S-C
A . (37220	A	(1.75)	(1.37)	(0.14)	(1.91)	(1.60)	N/A	25	MP-4164-25S	WIF -4104-233-0
		(1.99)	(1.56)	(0.14)	(2.14)	(1.65)	N/A	37	MP-4164-37S	MP-4164-37S-C
111	4 m (0000000)	57	44.5	4.39	60.8	45	- 4			
		(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				
	<u> </u>	(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
	Panel receptacle with pin contacts,	38 (1.49)	29.4 (1.15)	3.23 (0.13)	34.2 (1.34)	34.5 (1.35)	29 (1.14)	13	MP-4102-13P	MP-4102-13P-C
	black finish, supplied complete with	41	31.8	3.23	37.4	34.5	32.2	13	WIP-4102-13P	WII -4102-101-0
80/M	contacts.	(1.61)	(1.25)	(0.13)	(1.47)	(1.35)	(1.26)	19	MP-4102-19P	MP-4102-19P-C
		44.5	34.9	3.73	40.9	35.7	35.3		1102 101	
10 103		(1.75)	(1.37)	(0.14)	(1.61)	(1.40)	(1.38)	25	MP-4102-25P	MP-4102-25P-C
		50.8	39.7	3.73	46.7	36.5	41.4			
	A P P P E P E	(1.99)	(1.56)	(0.14)	(1.83)	(1.44)	(1.62)	37	MP-4102-37P	MP-4102-37P-C
1111/		57	44.5	4.30	53.4	38.5	47.8			
		(2.24) 69.8	(1.75)	(0.17)	(2.10)	(1.52)	(1.88)	54	MP-4102-54P	MP-4102-54P-C
			55.5	4.30	65.5	38.5	59			MD 4400 05D 0
		(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	150	MD 4100 150D	MP-4102-150P-C
		(2.74)	(2.18)	(0.17)	(2.57)	(1.52)	(2.32)	150	MP-4102-150P	WIF -4102-130F-0
	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			10	WW 20012 100	
		(1.47)	(1.24)	(4.33)	(0.18)	_	-	19	MP-25042-19S	-
15-2-0		40.87	31.5	110	4.7					
	· · · · · · · · · · · · · · · · · · ·	(1.61)	(1.24)	(4.33)	(0.18)	-	-	25	MP-25042-25S	-
1 9		46.68	31.5	110	4.7					
		(1.84)	(1.24)	(4.33)	(0.18)	-	-	37	MP-25042-37S	-
20		53.36	31.5	110	5.5					
~	l <b>4λ</b> J	(2.10)	(1.24)	(4.33)	(0.22)	-	-	54	MP-25042-54S	-
		65.48 (2.58)	31.5 (1.24)	110 (4.33)	5.5 (0.22)	_	_	85	MP-25042-85S	_
		65.48	31.5	110	5.5	<u> </u>	_	UJ	WII 723042-033	
		(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						
	r	(1.78)	(0.81)	(8.07)	-	-	-	25	MP-25042-25L	-
1		52.15	20.7	255				37	MP-25042-37L	_
		(2.05)	(0.81)	(8.07)	-		-	3/	IVIT-20042-3/L	_
		(2.30)	(0.81)	(8.07)	_	_	_	54	MP-25042-54L	_
	<u> </u>	70.7	20.7	255					250 12 0 12	
		(2.78)	(0.81)	(8.07)	-	-	-	85	MP-25042-85L	-
		70.7	20.7	255						
		(2.78)	(0.81)	(8.07)	1	_	l	150	MP-25042-150L	I

# Multipin Connectors MP-41 Series

PRODUCT - FIGURE	Dimensions in mm (inches)		Di	mensions i	in mm (inc	hes)		DING	PART NUMBER
Phoboti - Fluone	DRAWING	A	В	С	D	E	F	FINS	PANI NUMBEN
		34.16	31.5	110	4.7				
	Plug protective dustcap to suit MP-	(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
	_	40.87	31.5	110	4.7				
		(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
9	53.36	31.5	110	5.5					
	(2.10)	(1.24)	(4.33)	(0.22)	-	-	54	MP-25043-54S	
	<u> </u>	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					
		(1.64)	(0.81)	(8.07)	-	-	-	19	MP-25043-19L
		45.3	20.7	255					
	[	(1.78)	(0.81)	(8.07)	-	-	-	25	MP-25043-25L
1 2		52.15	20.7	255					
		(2.05)	(0.81)	(8.07)	-	-	-	37	MP-25043-37L
0	H	58.6	20.7	255					
	<b>8</b>	(2.30)	(0.81)	(8.07)	-	-	-	54	MP-25043-54L
		70.7	20.7	255					
		(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

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
	IN/A		150	MP-INS-18
	N/A	Extraction tool	All	MP-EXT-16/18
	N/A	Contact Pilot Pin	13-85	MP-GUIDE-16
	IN/A		150	MP-GUIDE-18
	N/A	Solder/Crimp Pin Contact	13-85 (Size 16)	MP-108400
	IN/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 Wilhelt of Courter's HOISING THE MULTIPIN CIRCULAR CONNECTORS E. G. MP-4106-858 Multipin, 4106 Cable Plug, 85 Contacts, S Female Socket Contacts, MP 85 C 4106 **SERIES PREFIX** MP Series Prefix **HOUSING TYPE** Inline cable connecting receptacle 4101 4102 Panel receptacle = 4106 Cable plug 4164 Panel plug 25042S Dustcap for panel plug 25042L = Dustcap for cable plug 25043S Dustcap for panel receptacle 25043L Dustcap for cable receptacle **NO. OF CONTACTS** 13, 19, 25, 37, 54, 85, 150 Р Male pin contacts **GENDER** \*Not required for dustcap S Female socket contacts part numbers С **OPTIONS** 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"			Crimp
	Wire Gauge - Stranded Wire				16AWG - 2	20AWG			18AWG
	Environmental			Complies	with EU RoHS	2 Directive 2	011/65/EU		
ELECTRICAL	Operating Voltage at Sea level - DC				250	V*			250V*
CHARACTERISTICS	Operating Voltage at Sea level - AC				200	V*			200V*
	Test Voltage AC RMS	1000V 1000V							1000V
	Current Carrying Capacity				13	A			7.5A
	Typical Contact Resistance				3.46	mΩ			11.25mΩ
	Insulation Resistance				5000	)ΜΩ			
CLIMATIC	Protection Class				IP67 (wh	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 / G	old plated			
	Female socket contact / Plating				Brass / G	old plated			
CLAMPING	PG Gland	11		13.5	16	2	21	29	36
CHARACTERISTICS	Cable Clamping range mr	1 4-1	)	5-12	9-14	13	-18	14-25	19-32
	(inche	(0.15 0.39		(0.19"- 0.47")	(0.35"- 0.55")	(0.51"	- 0.70")	(0.55"- 0.98")	(0.74"- 1.25")

<sup>\*</sup>Not suitable for domestic applications above 50V

MP-62/65 Series



### **MP-62/65 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.
- · Neopicile iliseit.
- Protective dust caps
- Metal housings
- Environmental resistant.
- · Black finish.
- · Positive bayonet locking
- · PG cable glands

Specifications: Page 151 Wiring Info: Page 141

PROBLICT FIGURE	Dimensions in mm (inches)	Dimensio	ns in mm (ir	ches)	DINO	DADT WINADED	PART NUMBER
PRODUCT - FIGURE	DRAWING	Α	В	PG	PINS	PART NUMBER	With Dustcap
	Straight cable plug with pin contacts, Black finish, Gold plated solder contacts.	38.9	181.5	16	39		
	В———	(1.53)	(7.15)			MP-6216-39P	MP-6216-39P-C
		45.5	193	21	61		
	PG	(1.80)	(7.60)			MP-6216-61P	MP-6216-61P-C
	Cable connecting receptacle with socket contacts, Black finish, Gold plated solder contacts.	36.7	181.5	16	39		
CONTRACT OF THE PARTY OF THE PA	B	(1.45)	(7.15)			MP-6211-39S	MP-6211-39S-C
			193	21	61		
	СРG	(1.70)	(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		
	Soluei Contacts.	(1.53)	(3.54)	3/4"		MP-6516-39P	MP-6516-39P-C
	Paper insertable	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.		(3.54)	3/4"		MP-6511-39S	MP-6511-39S-C
	Grant Jaid	43.0	100	NPT	61		
		(1.70)	(3.94)	3/4"		MP-6511-61S	MP-6511-61S-C

# Multipin Connectors MP-62/65 Series

PRODUCT - FIGURE	Dimensions in mm (inches) DRAWING		Dime	nsions i	n mm (ir	nches)		PINS	PART	PART NUMBER
11102001 1140112			В	С	D	E	F		NUMBER	With Dustcap
	ish, Gold plated solder contacts.		29.36			32	-	00	MD 0050 00D	MD 0050 00D 0
	A P P P P P P P P P P P P P P P P P P P	(1.53)	(1.16)	UNC	(1.54)	(1.26)	-	39	MP-6256-39P	MP-6256-39P-C
			34.93			35	-			
			(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			
	B oc	(1.44)	(1.15)	(0.12)	(1.25)	(0.87)	(1.18)	39	MP-6212-39S	MP-6212-39S-C
			34.93	3.74	38.1	22.3	36.4			
, that	-E-	(1.69)	(1.38)	(0.15)	(1.50)	(0.87)	(1.43)	61	MP-6212-61S	MP-6212-61S-C

PRODUCT - FIGURE	DDAWING	DECODIDATION	D	imensions	in mm (inc	ches)	DINO	DADT NUMBER
PRUDUCI - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	A D	В	C		PINS	PART NUMBER
1_3		Plug protective dustcap to suit MP-6256	31.7	15.9	127	4.40	39	MP-742-39S
			(1.25)	(0.62)	(4.99)	(0.17)		
No.			38.05	16.70	127	4.40	61	MP-742-61S
		<b> Ø</b> A	(1.50)	(0.66)	(4.99)	(0.17)		
		Receptacle protective dustcap to suit MP-6216	36.9	13.13	127	-	39	MP-742-39L
City.	[		(1.45)	(0.52)	(4.99)		00	WII 7 12 30E
			43.14	14.15	127	-	61	MP-742-61L
		(D)   (C)	(1.70)	(0.56)	(4.99)		01	WII 742 OTC
5_0	c	Plug protective dustcap to suit MP-6212	31.7	15.9	127	4.40	39	MP-738-39S
Cath.		•	(1.25)	(0.62)	(4.99)	(0.17)	39	IVIF-730-393
			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	-	000	14D 700 001
	<b>c</b>		(1.45)	(0.52)	(4.99)		39	MP-738-39L
0			43.14	14.15	127	-	01	MD 700 041
		ØA	(1.70)	(0.56)	(4.99)		61	MP-738-61L

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

		VAL	UE				
GENERAL	Number of contacts	39	61				
CHARACTERISTICS	Number of channels	12	20				
	Termination	Sol	der				
	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	600	)V*				
	Test Voltage AC RMS	150	00V				
	Current Carrying Capacity	37 x 7.5A	7.5A				
		2 x 13A					
	Insulation Resistance	5000	<b>)</b> ΜΩ				
CLIMATIC	Protection Class	IP67 (wh	en mated)				
CHARACTERISTICS	Operating Temperature	-55°C to +125°C (	-67°F to +257°F)				
MECHANICAL	Cable Retention	PG Glar	nd / NPT Thread				
CHARACTERISTICS	Mechanical Operations	500 mating cyc	cles (minimum)				
MATERIALS	Connector / Shell Finish	Aluminium A	Alloy / Black				
	Insert	Neop	rene				
	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")				

<sup>\*</sup>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
	<b>AMPHENOL</b>   019.0 [0.748"]	The wheel, wetai oneii	Black Finish	AC3M3MBW
	AMPHENOL 019.0 [e.748"]	XLR 3 pole female to 3 pole female adapter, Pre wired, Metal Shell	Nickel Finish	AC3F3FW
	60.4 [2.378"] 86.5 [3.406"]	rie wiieu, wetai Sileii	Black Finish	AC3F3FBW
	AMPHENOL 019.0 [e,748"]	XLR 3 pole female to 3 pole male adapter, Pre wired, Metal Shell	Nickel Finish	AC3F3MW
	60.4 [2.378"] 	Pre wheu, Metal Shell	Black Finish	AC3F3MBW
	(18.9 [0.744*]	XLR 3 pole female to 5 pole male adapter,	Nickel Finish	AC3F5MW
		Pre wired, Metal Shell		
	(18.9 [0.744*]	XLR 3 pole male to 5 pole female adapter, Pre wired, Metal Shell	Nickel Finish	AC3M5FW
		The wheel, wetai oneii		
	DOMESMAN   019   0.748"	XLR 5 pole male to 5 pole male adapter,  Pre wired, Metal Shell	Nickel Finish	AC5M5MW
	76 [2.991"]	The wheel, wetai oneii		
6	75 75	XLR D shell adapter, 3 pole male to 3 pole male, Pre-wired	Not Applicable	AC3M3MDW
	75 - 75 - 75 - 75 - 75 - 75 - 75 - 75 -	XLR D shell adapter, 3 pole female to 3 pole female, Pre-wired	Not Applicable	AC3F3FDW

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	29 (1984) (1984) (1984) (1984) (1984)		XLR D shell adapter, 5 pole male to 5 pole male, Pre-wired	Not Applicable	AC5M5MDW
6	29 CHANGE CONTROL OF THE PARTY	75.————————————————————————————————————	XLR D shell adapter, 5 pole female to 5 pole female, Pre-wired	Not Applicable	AC5F5FDW
10	29	75-	SP D shell adapter, SP-2 to SP-2, Pre- wired	Not Applicable	SP2F2FDW
0	29	75	SP D shell adapter, SP-4 to SP-4, Pre- wired	Not Applicable	SP4F4FDW
	29	75	D shell adapter without connectors	Not Applicable	AC-D-ADAPTER
	[22]	102.1 [7.509]  102.1 [7.509]  103.0 [7.50]  103.0 [7.50]  104.1 [7.50]  105.0 [7.50]	Termination Tool	For AC Series Cable Connectors	T2860
	7: #55 TRBU   7: #55 TRBU   1:	15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Termination Tool	For AX Series cable connectors	T2890
~	ø5.6 [.220]	2.0 [.077] 7.8 [.307]	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-B00T-1
			Coloured Boot	Red	AX-B00T-2
	ų v			Orange	AX-B00T-3
	160			Yellow	AX-B00T-4
	27.6			Green	AX-BOOT-5
	<b>Ø</b> 21.2 [.83]			Blue	AX-BOOT-6
	1			Violet	AX-B00T-7
		—39.0 [1.54]—— <del>—</del>		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
	<b>                                   </b>		Note: Custom printed numbers available	Red	AX-MARK2
Alm			(Please contact us)	Orange	AX-MARK3
eco.	-28.8-			Yellow	AX-MARK4
		] \		Green	AX-MARK5
-				Blue	AX-MARK6
100	20	0		Violet	AX-MARK7
	20.	<del>y =</del>		Grey	AX-MARK8
				White	AX-MARK9
			AC Coloured	Brown	AC-NUT-BRN
			Boot / Backshell	Red	AC-NUT-RED
		49.5 [1.949"]	Note: Number Identification optional.	Orange	AC-NUT-ORG
			(Please contact us.)	Yellow	AC-NUT-YEL
	\$20.2 [\$.795]"			Green	AC-NUT-GRN
	φ2 [ φ.7]			Blue	AC-NUT-BLU
				Violet	AC-NUT-VIO
				Grey	AC-NUT-GRY
				White	AC-NUT-WHT
			Coloured Grommets to	Brown	AC-GROMMET-BRN
20-000	ø10.30 [ø.406"]	15.0	suit AC Series, T Series and Musician range	Red	AC-GROMMET-RED
	00	[.591"]	and muoioidii luligo	Orange	AC-GROMMET-ORG
	[ & @ ]			Yellow	AC-GROMMET-YEL
	<u> </u>			Green	AC-GROMMET-GRN
	<b>†</b>			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.

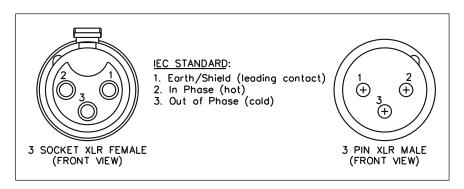
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PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	49.5	[1.949"]	AC Metal Boot / Backshell, Black Finish	Not Applicable	AC-NUT-METAL
	49.5 49.5 2.02¢	[1.949"]	AC Thermoplastic Boot / Backshell. Suitable for use with 8.5mm (0.33") O.D. cable.	Not Applicable	AC-NUT-J-BLK
at the second	M3	0 [.748"] 0 [.748"]	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
***	5.3.0.3	-1.83 <u>%</u>	M3 Screw to suit 52590060-300 M3 x 0.5	Nickel Finish  Matt Black	52500016-300 52500016-400

### **Connector Wiring Information**

### **CONNECTOR WIRING INFORMATION**

### **XLR (Microphone / Patch Cables)**

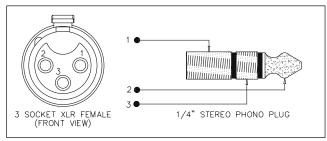


The standard XLR 3 contact pin outs are as shown above for a balanced lead. In such a configuration audio "Hot" (pin 2) is the in-phase connection whilst audio "Cold" (pin 3) is the out-of-phase connection. For an unbalanced lead however, you may connect pin 1 to either pin 2 or pin 3, but not both.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

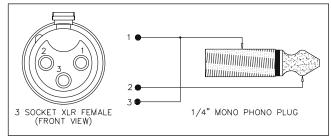
When terminating the cable shielding to pin 1 it is suggested that the shield be only grounded at one end of the cable to avoid inducing "hum". Pin 1 is a leading contact that engages at interconnection, before pin 2 or pin 3.

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

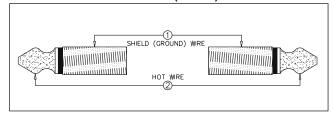
#### **MICROPHONE CABLE - BALANCED**



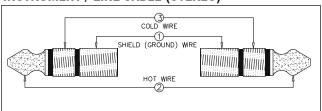
### **MICROPHONE CABLE - UNBALANCED**



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



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



### **Connector Wiring Information**

#### **MP Series**

MP-41 Series 4 Ch -13 pin

7 011		U	hiii
Ch	+	-	G
1	В	С	Е
2	F	K	Н
3	J	D	Α
4	N	М	G
General			
Ground		L	



MP-62 Series

12 Ch-39 pin

p n

N f Р

G c

D

10

12

СВ

R g S

- G

q

Χ

М

K

6 Ch -	- 1	19	pir
Ch	+	-	G
1	L	M	U
2	Α	N	В
3	K	J	Т
4	٧	Р	С
5	Н	S	G
6	R	D	Е
General			
Ground		F	
l			



MP-62 Series

20 Ch-61 pin

+ - G

JJ HH NN

ммкк рр

вв АА СС s FF W

r EE V

e D x

MP-41 Series MP-41 Series MP-41 Series

8 Ch	-2	5	pin
Ch	+	-	G
1	Α	Ε	F
2	G	С	В
3	D	Н	J
4	M	L	K
5	Q	Р	N
6	W	S	R
7	Т	Χ	Υ
8	Z	٧	U
General			
Ground		a	



12 Ch	<del>-</del> 3	37	pi
Ch	+	-	G
1	Ε	F	Α
2	В	С	G
3	Н	J	D
4	S	Т	K
5	L	M	U
6	٧	W	N
7	Р	R	Χ
7 8	P a	R b	X g
	$\vdash$		
8	a	b	g
8 9	a c	b d f	g j
8 9 10	a c e	b d	g j m



General

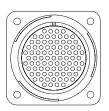
MP-41 Series MP-41 Series

<u>1–</u> {	<b>)</b> 4	pin
+	-	G
w	f	r
J	R	a
k	٧	AC
Ε	М	٧
е	q	у
В	Н	Р
Z	j	u
D	L	U
d	р	х
Α	G	0
Υ	h	t
С	K	Т
С	n	w
F	N	Х
g	s	AB
S	b	m
	AG	
	+ W J k E e B Z D d A Y C c F	+ W f J R k v E M e q B H Z j D L d p A G Y h C K c n F N g s S b



MP-41 Series

28 CI	1–8	35	pin
Ch	+	-	G
1	Α	В	С
2	Е	F	Н
3	J	K	L
4	N	Р	R
5	S	Т	U
6	Χ	Υ	Z
7	a	b	С
8	d	f	g
9	h	i	j
10	k	m	n
11	р	q	r
12	t	u	٧
13	w	Х	у
14	Z	AA	AB
15	AC	AD	AE
16	AF	АН	AJ
17	AK	AL	AM
18	ΑP	AR	AS
19	АТ	AU	AV
20	AW	AX	AY
21	ΑZ	ВА	ВВ
22	ВС	BD	BE
23	BJ	BK	BL
24	ВМ	BN	ВР
25	BS	ВТ	BU
26	BV	BR	BF
27	ВН	AN	S
28	W	M	D
	-	_	-



General

Ground

IVII - <del></del> I	OU	110	J
48 Cr	ا - 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
14	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
40	405	400	407



7	f	Е	у
8	q	DD	U
9	S	p	Т
10	Р	N	R
11	m	k	n
12	L	K	M
13	J	i	j
14	Н	G	h
15	g	F	Z
16	d	С	W
17	В	Α	С
18	b	a	Z
19	٧	u	Υ
20	t	GG	Χ
General			
Ground		N/A	



125 126 127 139 128 129

130 131 132 133 134 135

136 137 138

140 141 142

143 144 145

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General Ground

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ACJS-IH	129	ACPM-GN	123	AG4MCC	66	AX4MB BULK	6	AXS3FP2H	31
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ACJS-MHDC*	129	ACPM-KN-AU	121	AG5FCRV	67	AX4MDV	20	AXS3MP1H	30
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ACJS-MHDE	130	ACPM-RB-AU	124	AG5M	66	AX4MDV-M3	20	AXS3MP2	30
ACJS-MHDEM	130	ACPM-RB BULK	124	AG5MCC	66	AX5F	6	AXS3MP2H	30
ACJS-MHDM	130	ACPM-RN	124	AG5MCCH	66	AX5FB	6	AXS3MP2V	31
ACJS-MHDR	128	ACPM-RN-AU	124	AG6F	66	AX5FB-AU	6	AXS3MPH	30
ACJS-MHDRM	128	ACPM-RN BULK	124	AG6FCCH	66	AX5FB BULK	6	AXS3MPV	31
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ACJS-MHOP	128	ACPM-TB-AU	122	AG6FCRV	67	AX5FD	21	AXS4FP1	31
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JS3P	114	MP-4106-54S-C	144	MP-25043-150L	146	RJX8FB5VRGEB	99	RJXS8FG3HB	104
JS3P-AU	114	MP-4106-85S	144	MP-25043-150S	146	RJX8FB5VRRB	99	RJXS8FG3VB	104 104
JS3PB	114	MP-4106-85S-C	144	MP-108300 MP-108400	147 147	RJX8FB5VRREB	99	RJXS8FG5HB RJXS8FG5I	104
JS3PB-AU	114	MP-4106-150S	144	MP-108500	147	RJX8FB5VRYB	99	RJXS8FG5T	104
V		MP-4106-150S-C	144	MP-108600	147	RJX8FB5VRYEB	99	RJXS8FG5VB	104
K		MP-4164-13S	145	MP-EXT-16/18	147	RJX8FB5VUUB	99	RJXS8FG6HB	104
KM2P	136	MP-4164-13S-C	145	MP-GUIDE-16	147	RJX8FB5VUUEB	99	RJXS8FG6I	104
KM2P-AU	136	MP-4164-19S	145	MP-GUIDE-18	147	RJX8FB6HB	97	RJXS8FG6VB	104
		MP-4164-19S-C	145			RJX8FB6HEB	98		•

RJXS8FG5110	104	SP-2-FSG	71	TS3P-AU	112
RJXS8FG6110	104	SP-2-FSL	71	TS3PB	112
RJXS8FP5H	36	SP-2-MD	73	TS3PB-AU	112
RJXS8FP5HE	36	SP-2-MDH	73	TS3PB BULK	112
RJXS8FP5HP	36	SP-2-MDV	73	TS3PBJ	112
RJXS8FP5HPE	36	SP-4-F	72	TS3P BULK	112
RJXS8FP5V	37	SP4F4FDW	153	TS3PJ	112
RJXS8FP5VE	37	SP-4-FB	72	TS3RBJ	113
RJXS8FP5VP	37	SP-4-FBG	72	TS3RBJ-AU	113
RJXS8FP5VPE	37	SP-4-FBL	72	TS3RJ	113
RJXS8FP6H	36	SP-4-FBS	72 70	TS3RJ-AU	113
RJXS8FP6HE	36	SP-4-FBSG	72 70		
RJXS8FP6HP RJXS8FP6HPE	36 36	SP-4-FBSL SP-4-FG	72 72		
RJXS8FP6V	37	SP-4-FL	72 72		
RJXS8FP6VE	37	SP-4-FN	72		
RJXS8FP6VP	37	SP-4-FNG	72		
RJXS8FP6VPE	37	SP-4-FNL	72		
RJXS8FP15H	36	SP-4-FNS	72		
RJXS8FP15HE	36	SP-4-FNSG	72		
RJXS8FP15HP	36	SP-4-FNSL	72		
RJXS8FP15HPE	36	SP-4-FS	72		
RJXS8FP15V	37	SP-4-FSG	72		
RJXS8FP15VE	37	SP-4-FSL	72		
RJXS8FP15VP	37	SP-4-MC	74		
RJXS8FP15VPE	37	SP-4-MD	73		
RJXS8FP16H	36	SP-4-MD-8	73		
RJXS8FP16HE	36	SP-4-MDA	73		
RJXS8FP16HP	36	SP-4-MDAT	73		
RJXS8FP16HPE	36	SP-4-MDH	74		
RJXS8FP16V	37	SP-4-MDHT	74		
RJXS8FP16VE	37	SP-4-MDHT-8	74		
RJXS8FP16VP	37	SP-4-MDT	73, 74		
RJXS8FP16VPE	37	SP-4-MDV	74		
RJXS8FP25H	36	SP-4-MDV-2	74 74		
RJXS8FP25HE RJXS8FP25HP	36	SP-4-MDVT-8	74		
RJXS8FP25HPE	36 36	T			
RJXS8FP25V	37	T0000	450		
RJXS8FP25VE	37	T2860	153		
RJXS8FP25VP	37	T2890	153		
RJXS8FP25VPE	37	TH29-1 TM1P	147 116		
RJXS8FP26H	36	TM1P-AU	116		
RJXS8FP26HE	36	TM1PB	116		
RJXS8FP26HP	36	TM1PB-AU	116		
RJXS8FP26HPE	36	TM1PBJ	116		
RJXS8FP26V	37	TM1PJ	116		
RJXS8FP26VE	37	TM1RBJ	116		
RJXS8FP26VP	37	TM1RBJ-AU	116		
RJXS8FP26VPE	37	TM1RJ	116		
S		TM1RJ-AU	116		
0		TM2P	112		
SP-2-F	71	TM2P-AU	112		
SP2F2FDW	153	TM2PB	112		
SP-2-FB	71	TM2PB-AU	112		
SP-2-FBG	71	TM2PB BULK	112		
SP-2-FBL	71	TM2PBJ	112		
SP-2-FBS	71	TM2P BULK	112		
SP-2-FBSG	71	TM2PJ	112		
SP-2-FBSL	71	TM2PN	113		
SP-2-FG	71	TM2PN-AU	113		
SP-2-FL	71	TM2PN BULK	113		
SP-2-FN	71 71	TM2PNJ	113		
SP-2-FNG	71 71	TM2RBJ	113		
SP-2-FNL SP-2-FNS	71 71	TM2RBJ-AU TM2RBJ BULK	113 113		
SP-2-FNSG	71 71	TM2RJ BULK	113		
SP-2-FNSL	71	TM2RJ-AU	113		
SP-2-FS	71	TS3P	112		
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### **Product Safety Information**

### 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.

### 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.

#### 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.

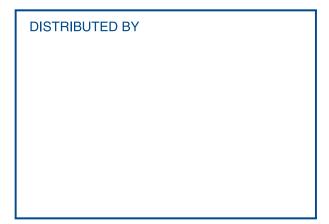
#### B) Other important information

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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