















**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.

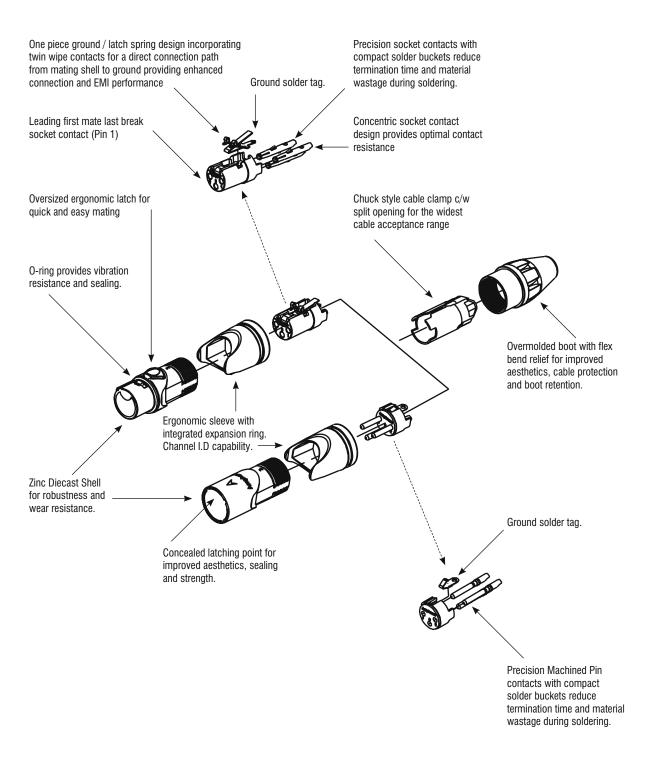
Continuous improvement through ISO9001, a focus on environmental awareness and development of next generation industry leading products is our philosophy. As the entertainment industry moves into the future the emerging technologies from other industries has become more prevalent and more challenging. 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.

CONTENTS		PAGE
	AX SERIES XLR CABLE CONNECTORS  METAL SHELL TYPE - SOLDER	<b>3</b> 4
	AC SERIES XLR CABLE CONNECTORS  METAL SHELL TYPE - SOLDER  THERMOPLASTIC SHELL TYPE - SOLDER	10 11 15
0000	AC "Z" SERIES XLR METAL CHASSIS MOUNT CONNECTORS  METAL D TYPE FLANGE - SOLDER AND PCB  METAL P TYPE FLANGE - SOLDER AND PCB	18 19 22
る都省の	AC SERIES XLR PCB CHASSIS MOUNT CONNECTORS THERMOPLASTIC A - TYPE FLANGE 3 CONTACT METAL B - TYPE FLANGE 3 CONTACT THERMOPLASTIC A - TYPE FLANGE 4 / 5 CONTACT	26 27 30 34
16 16	AC SERIES DUAL 1/4" (6.35mm) / XLR C - TYPE LOW PROFILE DUAL JACK / XLR CONNECTORS C - TYPE DUAL JACK / XLR CONNECTORS	<b>41</b> 42 44
	SP/HP/EP/AP SERIES HIGH POWER / LOUDSPEAKER CONNECTORS SP SERIES LOUDSPEAKER CONNECTORS HP POWER CONNECTORS EP METAL TYPE - SOLDER AP THERMOPLASTIC TYPE - SOLDER	50 51 60 62 64
	AMPHE-DANTE ADAPTERS	67
100	XLRnet SERIES  RJ45 CABLE PLUG HOUSING  RJ45 PCB CHASSIS MOUNT CONNECTORS	<b>71</b> 71 74
	FIBRE OPTIC CONNECTOR HOUSINGS	82
66666	BNC 75 RF CONNECTORS BNC 75 $\Omega$ RF CONNECTORS BNC PATCH PANELS	<b>84</b> 85 87
37/10	1/4" PHONE CONNECTORS T-SERIES T-SERIES SWITCHPLUG MUSICIAN SERIES II	<b>90</b> 92 94 99
2 1	1/4" PHONE JACK CONNECTORS	104
	PLUGS AND SOCKETS  3.5mm K-SERIES  RCA SERIES  G-TYPE MINIATURE XLR	114 115 118 121
	MULTIPIN CONNECTORS  MP-41 SERIES  MP-62/MP-65 SERIES	<b>125</b> 126 131
	ACCESSORIES	135
	CONNECTOR WIRING INFORMATION	139
	INDEX	141



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







## 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.





#### **Features:**

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

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

Part Number Breakdown: Page 6

**Specifications: Page 9** 

Assembly Instructions: Page 7 & 8

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	Ø19 [0.74*T]	-71 - 74 [2.80-2.90"]	XLR 3 pole male Machined contacts Nickel Finish	Standard	AX3M
	Amphanol			Bulk Pack	AX3M BULK
		—71 - 74 [2.80-2.90"]—— <u></u>	XLR 3 pole male Machined contacts	Standard	AX3MB
9	Ø19 [0.7447]		Black Finish	Gold Plated Contacts	AX3MB-AU
3	onedigma Amphenol			Bulk Pack	AX3MB BULK
	71 - 74 [2.80-2.90"]	XLR 3 pole female Stamped contacts Nickel Finish	Standard	AX3F	
			Bulk Pack	AX3F BULK	
	71 - 74 [2.80-2.90"]	XLR 3 pole female Stamped contacts Black Finish	Standard	AX3FB	
S 50			Gold Plated Contacts	AX3FB-AU	
			Bulk Pack	AX3FB BULK	
	71 - 74 [2.80-2.90"]	XLR 4 pole male Machined contacts Nickel Finish	Standard	AX4M	
	Amphanol			Bulk Pack	AX4M BULK

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



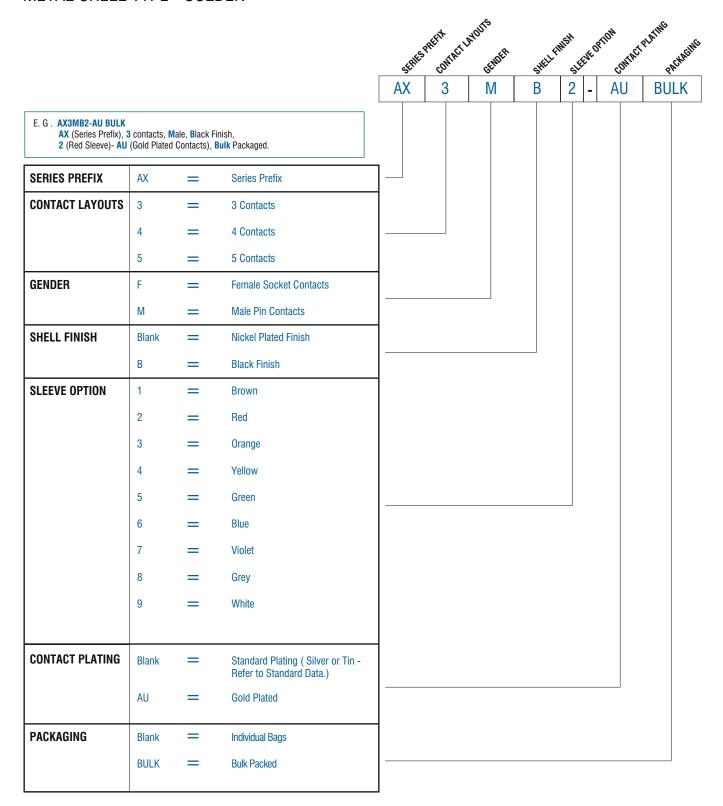
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	F.	—71 - 74 [2. <b>80-2.90</b> "]———	XLR 4 pole male Machined contacts	Standard	AX4MB
	903 [0.7447]	Black Finish	Gold Plated Contacts	AX4MB-AU	
	Managina N			Bulk Pack	AX4MB BULK
	Ø15.7 [0.6.18 <sup>-</sup> ]	71 - 74 [2.80-2.90"]	XLR 4 pole female Machined contacts Nickel Finish	Standard	AX4F
				Bulk Pack	AX4F BULK
		-71 - 74 [2.80-2.90"]————————————————————————————————————	XLR 4 pole female	Standard	AX4FB
	71 - 74 [2.80-2.90"]	Machined contacts Black Finish	Gold Plated Contacts	AX4FB-AU	
				Bulk Pack	AX4FB BULK
	Ø19 [0.744"]	71 - 74 [2.80-2.90"]	XLR 5 pole male Machined contacts Nickel Finish	Standard	AX5M
	Outpleand Ampliband			Bulk Pack	AX5M BULK
	71 - 74 [2.80-2.90"]	XLR 5 pole male Machined contacts Black Finish	Standard	AX5MB	
			Gold Plated Contacts	AX5MB-AU	
			Bulk Pack	AX5MB BULK	
	71 - 74 [2.80-2.90"]	XLR 5 pole female Machined contacts Nickel Finish	Standard	AX5F	
60				Bulk Pack	AX5F BULK
	[8]	-71 - 74 [2.80-2.90°]——-	XLR 5 pole female	Standard	AX5FB
	71 - 74 [2.80-2.90"]		Machined contacts Black Finish	Gold Plated Contacts	AX5FB-AU
				Bulk Pack	AX5FB BULK





## PART NUMBER BREAKDOWN

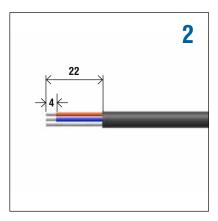
METAL SHELL TYPE - SOLDER







Slide the nut (Backshell) onto the cable



Strip the cable



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

## PI539 ASSEMBLY INSTRUCTIONS

AX SERIES FEMALE XLR CABLE CONNECTOR



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

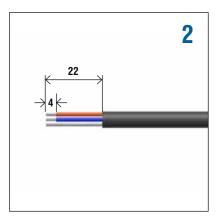


Thread the nut (Backshell) onto the shell (Torque 0.8Nm - 1.2Nm) to activate the cable clamp and close the connector assembly.

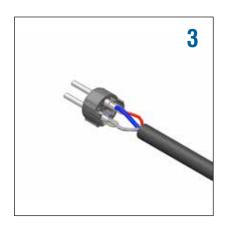




Slide the nut (Backshell) onto the cable



Strip the cable



Solder the wires to the contacts.

## PI538 ASSEMBLY INSTRUCTIONS

AX SERIES MALE XLR CABLE CONNECTOR



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.



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)			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	Service Voltage RMS		133V 1)			
CHARACTERISTICS	Test Voltage AC RMS		1400V			
	Current carrying capacity: Solder	15A	10A	7.5A		
	Typicial Contact Resistance	≤3m Ω				
	Insulation Resistance	≥1G Ω				
CLIMATIC Characteristics	Protection Class	IP40				
CHANACIENISTICS	Operating Temperature	-25°C to +75°C (-13°F to -167°F)				
MECHANICAL	Insertion and Withdrawal force	≥10N - ≤30N				
CHARACTERISTICS	Weight 2)	31g (0.068lb)	33g (0.073lb)	33g (0.073lb)		
	Typical Cable retention force	22Kg to 44Kg (50lb t	to 100lb) - Dependent on cable i	material and diameter.		
	Cable O.D. range	;	3mm to 8mm (0.118" to 0.314"	")		
	Mechanical Operations		1000 mating cycles			
MATERIALS	Connector shell - Metal Shell finish		Diecast Zinc Alloy Satin nickel or Black			
	Insulators		UL94V-0 PA66, 30% Glass Fille	d		
	Boot / Backshell Finish	UL94V-0 Noryl N190 / Santoprene Black, other colours available - see page 80				
	Cable clamp		Noryl N190			
	Sleeve	Noryl N190				
	Male Contact Machined - Solder / Plating		Brass / Silver or Gold (Optional)	)		
	Female Contact Stamped - Solder / Plating	Phosphor Bronze / Tin or Gold (Optional)				

 $<sup>^{\</sup>mbox{\tiny 1)}}\,\mbox{Not}$  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 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 FinishZinc 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 O.D 3mm to 6.5mm (0.118" to 0.255")
- · Large Jaws cable clamp, Cable O.D 6.5mm to 8mm (0.255" to 0.314")
- Metal Boots / Backshells
- · Coloured Boots / Backshells
- · Coloured Identification rings
- · Termination / Assembly tooling

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



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



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

#### **Ordering Codes**

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#### 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 14

**Specifications: Page 16** 

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	82.0 [3.228*]		XLR 3 pole male, Machined contacts, Nickel Finish,	Standard	AC3MM
8	Ø19.0 [0.748*]	American	Jaws cable clamp	Bulk Pack	AC3MM BULK
	₩	—82.0 [3.228″]—— <del></del>	XLR 3 pole male, Machined contacts,	Standard	AC3MMB
7	ø19.0 [0.748*]		Black Finish, Jaws cable clamp	Gold Plated Contacts	AC3MMB-AU
	<u> </u>			Bulk Pack	AC3MMB BULK
	82.0 [3.228*] Ø19.0 [0.748*]	XLR 3 pole male, Stamped contacts, Nickel Finish,	Standard	AC3M	
0		Jaws cable clamp	Large Cable Clamp	AC3MJ	
			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*] Ø19.0 [.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	
			Bulk Pack	AC3FB BULK	





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*]		oaws cable clamp	Large Cable Clamp	AC4MJ
	<u> </u>			Bulk Pack	AC4M BULK
_	h	—82.0 [3.228″]——⊶	XLR 4 pole male, Machined contacts,	Standard	AC4MB
4	Δ	02.0 [3.220]	Black Finish, Jaws cable clamp	Gold Plated Contacts	AC4MB-AU
	ø19.0 [0.748″]		Jawa Cabic 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 [3.228"] Ø19.0 [.748"]		XLR 4 pole female, Machined contacts, Black Finish, Jaws cable clamp	Standard	AC4FB
				Gold Plated Contacts	AC4FB-AU
		Jawa Cabic Clamp	Large Cable Clamp	AC4FBJ	
0.1		3		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
		—82 N [3 228″]——ы	XLR 5 pole male, Machined contacts, Black Finish, Jaws cable clamp	Standard	AC5MB
	82.0 [3.228*] ø19.0 [0.748*]	02.0 [3.220]		Gold Plated Contacts	AC5MB-AU
		Jaws Cable Clarify	Large Cable Clamp	AC5MBJ	
				Bulk Pack	AC5MB BULK
	82.0 [3.228"]		XLR 5 pole female, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC5F
	Ø19.0 [.748"]		Jawa Cabic Clamp	Large Cable Clamp	AC5FJ
				Bulk Pack	AC5F BULK
	<b>№</b>	—82.0 [3.228″]—— <del>□</del>	XLR 5 pole female, Machined contacts,	Standard	AC5FB
		Black Finish,	Gold Plated Contacts	AC5FB-AU	
	ø19.0 [.748"]		Jaws cable clamp	Large Cable Clamp	AC5FBJ
			Bulk Pack	AC5FB BULK	





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″]		ours ours ours.p	Large Cable Clamp	AC6AMJ
	<u> </u>			Bulk Pack	AC6AM BULK
	<b></b>	—82.0 [3.228″] <del></del>	XLR 6A pole male, Machined contacts,	Standard	AC6AMB
	Δ		Black Finish, Jaws cable clamp	Gold Plated Contacts	AC6AMB-AU
	ø19.0 [0.748″]		Jawa Cabic Clarip	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*]		Jawa Cabic Clarip	Large Cable Clamp	AC6AFJ
	<u> </u>			Bulk Pack	AC6AF BULK
_	82.0 [3.228*] Ø19.0 [7.748*]	—821 [3.228″]——⊶	XLR 6A pole female, Machined contacts,	Standard	AC6AFB
		Black Finish, Jaws cable clamp	Gold Plated Contacts	AC6AFB-AU	
			Large Cable Clamp	AC6AFBJ	
			Bulk Pack	AC6AFB BULK	
	82.0 [3.228*] Ø19.0 [0.748*]	XLR 7 pole male, Gold plated Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC7M	
			Large Cable Clamp	AC7MJ	
			Bulk Pack	AC7M BULK	
_	02.0 [2.220/]	—82.0 [3.228″] <del> </del>	XLR 7 pole male, Gold plated	Standard	AC7MB
	Ø19.0 [0.748"]		Machined contacts, Black Finish,		
			Jaws cable clamp	Large Cable Clamp	AC7MBJ
	<u> </u>			Bulk Pack	AC7MB BULK
	82.0 [3.228"]	—82.0 [3.228*]————	XLR 7 pole female, Gold plated Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC7F
	ø19.0 [.748*]			Large Cable Clamp	AC7FJ
			Bulk Pack	AC7F BULK	
		02.0 [2.220#]	XLR 7 pole female, Gold plated Machined contacts,	Standard	AC7FB
1		—82.0 [3.228"]———————————————————————————————————			
	ø19.0 [.748″]		Black Finish, Jaws cable clamp	Large Cable Clamp	AC7FBJ

ENTERTAINMENT@AMPHENOL TRUSTED GLOBALLY

AC7FB BULK

**Bulk Pack** 





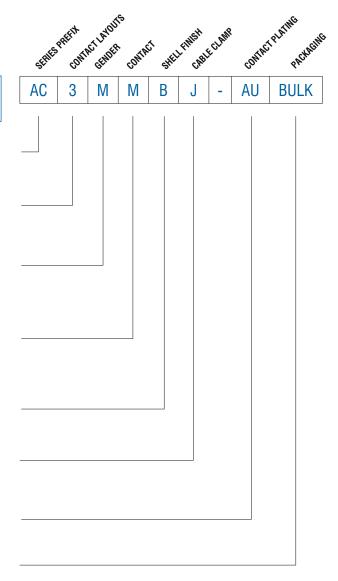
## PART NUMBER BREAKDOWN

METAL SHELL TYPE - SOLDER

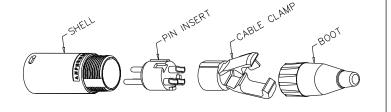
E. G. AC3MMBJ-AU BULK

AC (Series Prefix), 3 contacts, Male, Machined Contacts, Black Polyester Finish, J (Large Jaws),- AU (Gold Plated Contacts), Bulk Packaged.

SERIES PREFIX	AC	=	Series Prefix
CONTACT LAYOUTS	3	=	3 Contacts
	4	=	4 Contacts
	5	=	5 Contacts
	6A	=	6 Contacts
	7	=	7 Contacts
GENDER	F	=	Female Socket Contacts
	М	=	Male Pin Contacts
CONTACT <sup>1</sup>	Blank	=	Stamped Contacts
	М	=	Machined Contacts
	G	=	Stamped Contacts, Ground Tag
	MG	=	Machined Contacts, Ground Tag (Applicable 3 male pin contacts, option M & MG only)
SHELL FINISH <sup>2</sup>	Blank	=	Nickel Plated Finish
	В	=	Black Polyester Finish
CABLE CLAMP	Blank	=	Standard Jaws 3mm - 6.5mm cable O.D. (0.118" to 0.255")
	J	=	Large Jaws 6.5mm - 8mm cable O.D. (0.255" to 0.314")
CONTACT PLATING <sup>3</sup>	Blank	=	Standard Plating (Silver or Tin) (Refer to Standard Data)
	AU	=	Gold Plated
PACKAGING	Blank	=	Individual Bags
	BULK	=	Bulk Packed



#### **ISO VIEW OF AC3MM**



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

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

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

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



## ENTERTAINMENT @ AMPHENOL TRUSTED GLOBALLY

#### THERMOPLASTIC SHELL TYPE - SOLDER



#### Features:

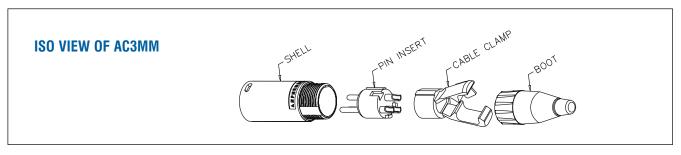
- · Thermoplastic Shell.
- Solder Bucket Connections.
- "Jaws" Cable Retention System.
- Stamped or Machined Contacts.
- Leading first mate last break socket contact.
- Quick and easy assembly without screws by hand or portable termination tool. (Part number T2860.)

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

**Specifications: Page 16** 

PRODUCT - FIGURE	DRAWING Dimensions in m	nm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	Ø19.0 [0.748"]		XLR 3 pole male, Machined contacts, Thermoplastic shell, Jaws cable clamp	Standard	АСЗММСР
				Large Cable Clamp	AC3MMCPJ
				Bulk Pack	AC3MMCP BULK
	Ø19.0 [0.748"]		XLR 3 pole male, Stamped contacts, Thermoplastic shell, Jaws cable clamp	Standard	AC3MCP
3	10.748 1		Large Cable Clamp	AC3MCPJ	
				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"]		Large Cable Clamp	AC3FCPJ	
				Bulk Pack	AC3FCP BULK

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







## STANDARD DATA AC CABLE CONNECTORS

				VALUE			
GENERAL	Number of contacts	3	4	5	6A	7	
CHARACTERISTICS	AC Series Contact Arrangements (Front view of pin inserts)		(a) 4 (b) 6 (c) 6	1 5 6 2 3 4 6 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	2 6 5 2 3 4	1 7 6 2 3 4 5 3 4	
	Termination			SOLDER			
	Max. Wire Gauge - Stranded wire: Solder	14AWG	16AWG	18/	AWG	20AWG	
	Flammability rating of insulator plastics and housings			UL94V-0			
	Environmental		Complies with	EU RoHS 2 Directi	ve 2011/65/EU		
ELECTRICAL	Service Voltage RMS	133V <sup>1</sup>					
CHARACTERISTICS	Test Voltage AC RMS	1400V					
	Current carrying capacity: Solder	15A	10A	7.	5A	5A	
	Typical Contact Resistance			≤3mΩ			
	Insulation Resistance			≥1GΩ			
CLIMATIC	Protection Class			IP40			
CHARACTERISTICS	Operating Temperature		-25°C to	+75°C (-13°F to	+167°F)		
MECHANICAL	Insertion and Withdrawal force			≥10N - ≤30N			
CHARACTERISTICS	Weight - Metal <sup>2</sup>	36g (0.080lb)	37g (0.081lb)		38g (0.083lb)		
	Weight - Thermoplastic <sup>2</sup>	18g 19g 20g (0.039lb) (0.041lb) (0.044lb)					
	Typical Cable retention force	22Kg to 44Kg (50lb to 100lb) - Dependent on cable material and diameter.					
	Cable O.D. range - JAWS clamp Standard Large	3mm to 6.5mm (0.118" to 0.255")					
	Mechanical Operations			1000 mating cycle	S		

 $<sup>^{\</sup>scriptscriptstyle{1)}}$  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 AC CABLE CONNECTORS

		DETAILS
MATERIALS	Connector shell - Metal	Diecast Zinc Alloy
	Shell finish	Satin nickel or Black polyester
	Connector shell - Thermoplastic	Thermoplastic, UL94V-0 Modified PPE Resin
	Shell finish	Black
	Insulators	UL94V-0 PBT Resin or Modified PPE Resin
	Boot / Backshell	UL94V-0 Modified PPE Resin or Machined Brass
	Finish	Black, other colours available - see page 137
	Cable clamp	
	Standard Solder JAWS	UL94V-0 Modified PPO Resin (Black)
	Large Solder JAWS	UL94V-0 Modified PPO Resin (Purple)
	Cable Bushing	Santoprene
	Male Contact	
	Stamped - Solder / Plating	Phosphor Bronze / Silver or Gold (Optional)
	Machined - Solder / Plating	Brass / Silver or Gold (Optional
	Female Contact	
	Stamped - Solder / Plating	Phosphor Bronze / Tin or Gold (Optional)
	Machined - Solder / Plating	Brass / Silver or Gold (Optional)





# AC "Z" SERIES XLR METAL CHASSIS MOUNT CONNECTORS

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

#### **Features**

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

#### **Options**

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

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

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

#### **Ordering Codes**

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

## Simple steps to guide you in using this catalogue

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



#### **METAL D TYPE FLANGE - SOLDER AND PCB**



#### Features:

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

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

Part Number Breakdown: Page 23

**Specifications: Page 24** PCB Footprints: Page 25 Panel Cutouts: Page 25

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
10		XLR 3 pole male, D Flange,	Standard	AC3MMDZ
		Machined contacts, Nickel Finish	Vertical PCB	AC3MMDZV
Distribution of	19.0 [.748"]		Bulk Pack	AC3MMDZ BULK
	31.0 [1.220]	XLR 3 pole male, D Flange,	Standard	AC3MMDZB
9/1	SOLDER CONTACTS PC6 CONTACTS PC8	Machined contacts, Black Finish	Gold Plated Contacts	AC3MMDZB-AU
			Vertical PCB	AC3MMDZVB
Service of the Servic			Bulk Pack	AC3MMDZB BULK
6	19.0 [.748"] - 2.7 [.106"]	XLR 3 pole male, D Flange, Stamped contacts, Nickel Finish	Standard	AC3MDZ
			Bulk Pack	AC3MDZ BULK
6	SOLDER CONTACTS	XLR 3 pole male, D Flange,	Standard	AC3MDZB
	-26.0 [1.024"]	Stamped contacts, Black Finish	Gold Plated Contacts	AC3MDZB-AU
			Bulk Pack	AC3MDZB BULK
E PLOR		XLR 3 pole female, D Flange, Stamped contacts,	Standard	AC3FDZ
	26.0 [1.024"] +	Nickel Finish	Bulk Pack	AC3FDZ BULK
(a) 12 d	SOLDER CONTACTS	XLR 3 pole female, D Flange, Stamped contacts, Black Finish	Standard	AC3FDZB
	19.0 [.748*] ————————————————————————————————————		Gold Plated Contacts	AC3FDZB-AU
			Bulk Pack	AC3FDZB BULK



#### **METAL D TYPE FLANGE**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
3			XLR 4 pole male, D Flange, Machined contacts,	Standard	AC4MDZ
	19.0	–2.7 [.106"] <del> ~~ </del> 5.5 [.217"]	Nickel Finish	Vertical PCB	AC4MDZV
	-24.0 [.945]= -31.0 [1.207]=			Bulk Pack	AC4MDZ BULK
	24.0	SOLDER CONTACTS PCB CONTACTS	XLR 4 pole male, D Flange,	Standard	AC4MDZB
9	-26.0 [1.024"]	32.1 [1.263*] 27.5 [1.437*] 36.5 [1.437*]	Machined contacts, Black Finish	Gold Plated Contacts	AC4MDZB-AU
			Diack Hillon	Vertical PCB	AC4MDZVB
A CONTRACTOR OF THE PARTY OF TH				Bulk Pack	AC4MDZB BULK
(313)			XLR 4 pole female, D Flange,	Standard	AC4FDZ
	p-26.0 [1.024"]	-6.5 [.256"]	Machined contacts, Nickel Finish	Vertical PCB	AC4FDZV
The state of the s	(1.220°]			Bulk Pack	AC4FDZ BULK
	3.0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	SOLDER CONTACTS PCB CONTACTS	XLR 4 pole female,	Standard	AC4FDZB
0	19.0	-5.5 [.217"] -32.0 [1.260"] -36.2 [1.425"]	D Flange, Machined contacts, Black Finish	Gold Plated Contacts	AC4FDZB-AU
				Vertical PCB	AC4FDZVB
				Bulk Pack	AC4FDZB BULK
6			XLR 5 pole male, D Flange,	Standard	AC5MDZ
	19.0  *- [.748*]	2.7 [.106"]	Machined contacts, Nickel Finish	Vertical PCB	AC5MDZV
	24.0 [.945]+			Bulk Pack	AC5MDZ BULK
	31.0	SOLDER CONTACTS PCB CONTACTS	XLR 5 pole male, D Flange,	Standard	AC5MDZB
9		→ 27.5 [1.083"] → → 32.1 [1.263"] → 36.5 [1.437"] →	Machined contacts, Black Finish	Gold Plated Contacts	AC5MDZB-AU
			Black Tillion	Vertical PCB	AC5MDZVB
and the same of th				Bulk Pack	AC5MDZB BULK
			XLR 5 pole female, D Flange,	Standard	AC5FDZ
p= 26.0 [1.024*]-eq p==== 6.5 [.25(	6.5 [.256"] -2.5 [.098"]	Machined contacts, Nickel Finish	Vertical PCB	AC5FDZV	
	24.0 [:945"] — 31.0 [:1220"]			Bulk Pack	AC5FDZ BULK
	(3.0 SOLDER CONTACTS  19.0 31.1 [1.224"]		XLR 5 pole female, D Flange,	Standard	AC5FDZB
		31.1 [1.224"] 36.2 [1.425"] 36.2	Machined contacts, Black Finish	Gold Plated Contacts	AC5FDZB-AU
			DIAUN FIIIISH	Vertical PCB	AC5FDZVB
Account of the same of the sam				Bulk Pack	AC5FDZB BULK



#### **METAL D TYPE FLANGE**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			XLR 6A pole male, D Flange, Machined contacts, Nickel Finish	Standard	AC6AMDZ
	19.0	-2.7 [.106"] -5.5 [.217"]	THE NOTE THE STATE OF THE STATE	Vertical PCB	AC6AMDZV
ransonia.	24.0 [.1220"] —			Bulk Pack	AC6AMDZ BULK
	31.0 [	SOLDER CONTACTS PCB CONTACTS	XLR 6A pole male, D Flange,	Standard	AC6AMDZB
9	26.0 [1.024"]	5.5 [.217"] - 27.5 [1.083"] - 36.5 [1.437"] - 36.5 [1.437"]	Machined contacts, Black Finish	Gold Plated Contacts	AC6AMDZB-AU
			DIACK FIIIISH	Vertical PCB	AC6AMDZVB
				Bulk Pack	AC6AMDZB BULK
C TUES			XLR 6A pole female, D Flange, Machined contacts, Nickel Finish	Standard	AC6AFDZ
	26.0 [1.024"]	6.5 [.256"]	MICROLLINISH	Vertical PCB	AC6AFDZV
alore and a second	PUSH 1.000			Bulk Pack	AC6AFDZ BULK
	24.0 [.945*] - 31.0 [1.220*]		XLR 6A pole female,	Standard	AC6AFDZB
C (=11:t)		SOLDER CONTACTS PCB CONTACTS 22.0 [.866*]	D Flange, Machined contacts, Black Finish	Gold Plated Contacts	AC6AFDZB-AU
	19.0 [.748"]	31.1 [1.224"]—		Vertical PCB	AC6AFDZVB
-				Bulk Pack	AC6AFDZB BULK
			XLR 7 pole male, D Flange, Gold Plated Machined contacts,	Standard	AC7MDZ
	19.0	-2.7 [.106"] -5.5 [.217"]	Nickel Finish	Vertical PCB	AC7MDZV
	24.0 [.945"] 1.320"] —			Bulk Pack	AC7MDZ BULK
8		SOLDER CONTACTS  5.5 [217"]  32.1 [1.263"]  36.5 [1.437"]	XLR 7 pole male, D Flange, Gold Plated Machined contacts,	Standard	AC7MDZB
			Black Finish	Vertical PCB	AC7MDZVB
age and				Bulk Pack	AC7MDZB BULK
putst			XLR 7 pole female, D Flange, Gold Plated Machined contacts,	Standard	AC7FDZ
	26.0 [1.024"]	-6.5 [.256*]	Nickel Finish	Vertical PCB	AC7FDZV
Barrio La	PUSH [: SZ			Bulk Pack	AC7FDZ BULK
C TOP	SOLDER CONTACTS  PCB CONTACTS  PCB CONTACTS  PCB CONTACTS  22.0 [.866*]	XLR 7 pole female, D Flange, Gold Plated Machined contacts,	Standard	AC7FDZB	
	19.0 [.748*]	32.0 [1.260"]	Black Finish	Vertical PCB	AC7FDZVB
all the same of th				Bulk Pack	AC7FDZB BULK



#### METAL P TYPE FLANGE -SOLDER AND PCB



#### 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 23 Specifications: Page 24 PCB Footprints: Page 25 Panel Cutouts: Page 25

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	POLES	PART NUMBER
	(a) 4 (b) 4 (c)	SOLDER CONTACTS  32.1 [1.265*]	XLR male, Narrow flange, Machined contacts	3	AC3MMPNZ
			XLR male, Narrow flange,	3	AC3MPNZ
	(1.0 kg.) 1 (1.0 k		Stamped contacts,	4	AC4MPNZ
(2)	(H) (1.063°] - 38.8 [1.449°] -			5	AC5MPNZ
0	SOLDER CONTACTS			6	AC6AMPNZ
1	⇒22.2 [.874"]⇒	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 ]-s-	<del></del>	XLR male, Wide flange,	3	AC3MP
8	① (39°) - (45°)		Stamped contacts	4	AC4MP
	26.4 [1.039"] - 36.7 [1.45"]			5	AC5MP
2	AMPHENOL (1)	SOLDER CONTACTS		6	AC6AMP
James	16.7 [.656"]	→ 32.5 [1.278"] →		7	AC7MP
	27.2 [1.070*]	3.5 [.138"]	XLR female, Wide flange,	3	AC3FPZ
PUSH		(Section 1)	Stamped contacts	4	AC4FPZ
	26.4 [1.039"			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.



#### **METAL TYPE FLANGE**

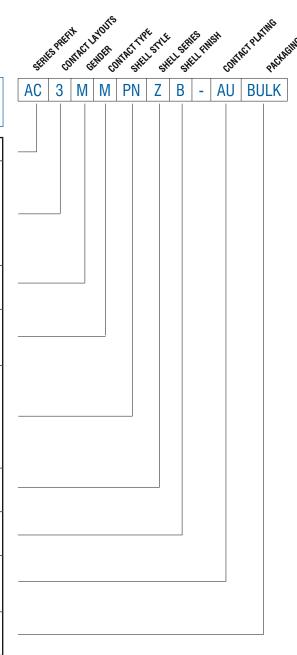
### PART NUMBER BREAKDOWN

#### 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
GENDER	M	=	Male Pin Contacts
***CHINED	Blank	=	Stamped Contacts
MACHINED CONTACTS <sup>1</sup>	M	=	Machined Contacts (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)
OUEL L OEDIEG	Blank	=	Male P Shell Style Only
SHELL SERIES	Z	=	Metal Chassis Series
OUELL EINIONS	Blank	=	Nickel Plated Finish
SHELL FINISH <sup>2</sup>	В	=	Black Polyester Finish
CONTACT PLATING3	Blank	=	Standard Plating (Silver or Tin - refer to Standard Data)
	AU	=	Gold Plated
DAGKAGING	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 SERIES CHASSIS - METAL "Z"

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

<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.

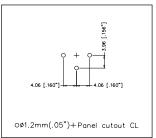


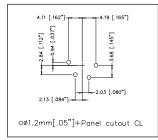


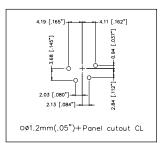
## **AC SERIES CHASSIS METAL "Z"**

#### **PCB FOOTPRINTS** STRAIGHT (V)

**CONNECTOR SIDE OF PCB** 



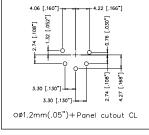


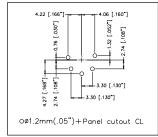


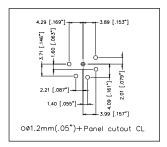
AC3MM\*ZV



AC4M\*ZV



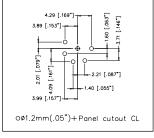


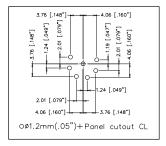


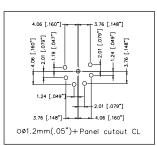
AC5F\*ZV

AC5M\*ZV

AC6AF\*ZV







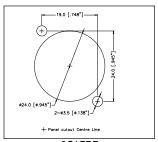
AC6AM\*ZV

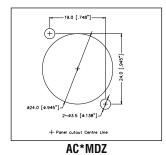
AC7F\*ZV

AC7M\*ZV

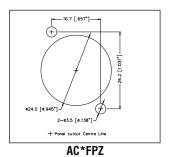
#### PANEL CUTOUT DIMENSIONS

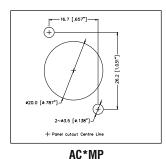
#### **FRONT VIEW**

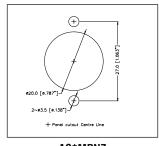




AC\*FDZ







**AC\*MPNZ** 



#### A AND B TYPE FLANGE



## 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.

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





## THERMOPLASTIC A TYPE FLANGE 3 CONTACT



#### Features:

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

 ${\bf Options:}$  Vertical or Horizontal PCB, Various grounding methods, Latching or Non-Latching.

Part Number Breakdown: Page 35 Specifications: Page 38 PCB Footprints: Page 39 Panel Cutouts: Page 40

**Recommended Fastener: Page 135** 

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	GROUND LINK VARIATIONS	PART NUMBER
	25.4 [.998"]  Amphenol  1 3 2  2.7  [.106"]	19.5 [.768"] 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"]  Amphenor  1 3 2  2.7  [.106"]	19.5 [.768*] - 19.8 [.780*] - 19.8 [	XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to Mating connector shell	AC3MAH1-AU-PRE
10	25.4 [.998"]  Amphenol  1 3 2  2.7  [.106"]	19.5 [.768*] - 19.8 [.780*] - 19.8 [	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*] 19.8 [.780*] 19.8 [.780*] 19.8 [.780*]	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"]  Amphenol (.106")  2.76 (.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



#### THERMOPLASTIC A TYPE FLANGE

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	GROUND LINK VARIATIONS	PART NUMBER
	25.4 [.998"]    Minpherol   1	24.0 [.945] 19.5 [.768] 19.5 [.768] 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)	3.2 [.126"] 19.5 [.768"] 19.5 [.768"] 19.8 [.780"] 19.8 [.780"]	XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAH-AU-PRE
	25.4 [.998*]  (PUSH)  (PUSH)  (PUSH)  (PUSH)  (Amphenol (Push)  (Push)	19.5 [.780*] 19.5 [.768*] 19.5 [.780*] 19.6 [.780*] 19.8 [.780*] 19.8 [.780*]	XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to Mating connector shell	AC3FAH1-AU-PRE
Ö	25.4 [.998*]  (PUSH)  (Amphenol () 3 () 2 () 1 () 2 () 2	19.5 [.780] 19.5 [.780] 19.5 [.780]	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
10	25.4 [.998"]———————————————————————————————————	19.5 [.768"] - 19.8 [.780"] - 19.8 [.780"] - 19.5 [.768"] - 19.5 [	XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAHL-AU-PRE
10	25.4 [.998"]———————————————————————————————————	19.5 [.768"] ————————————————————————————————————	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"]  Amphand  3 0  2.6  [.102"]	19.5 [.768"] - 19.8 [.780"] - 19.8 [.780"] - 19.5 [.768"] - 19.5 [	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



#### THERMOPLASTIC A TYPE FLANGE

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	GROUND LINK VARIATIONS	PART NUMBER
0	25.3 [.998*]  PUSH  Amphanol  2 3 (1)  2 (1)  2 (1)  2 (1)  2 (1)	-3.2 [.126*] -19.5 [.768*] -19.5 [.758*] -24.0 [.945*]	XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAV-AU-PRE
0	25.3 [.998*]  PUSH  Amphenol  3 (1)  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	Pin 1 to Chassis to Mating connector shell	AC3FAV1-AU-PRE
0	25.3 [.998*]  (PUSH)  (Amphanol )  (2 0 1 )  (3 10 )  (4 10 )  (5 10 )  (6 10 )  (7 10 )	-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	Mating connector shell to Chassis - Pin 1 sep. Ground.	AC3FAV2-AU-PRE
0	25.3 [.998*]  Amphanol  2 3 0  2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	19.5 [.768"] 19.5 [.768"] 19.5 [.768"] 24.0 [.945"]	XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAVL-AU-PRE
10	25.3 [.998*]  Amphanol  2 3 (1)  2 (1)  2 (1)  2 (1)	19.5 [.768"] 19.5 [.768"] 19.5 [.768"] 24.0 [.945"]	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
0	25.3 [.998"]  Ampherol  3 ()  2.6  [.102"]	19.5 [.768"]	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



#### **METAL B - TYPE FLANGE 3 CONTACT**



#### Features:

- Thermoplastic Shell with Metal Mounting Flange.
- 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 35 **Specifications: Page 38** PCB Footprints: Page 39
Recommended Fastener: Page 135 Panel Cutouts: Page 40

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION/ GROUND LINK	MOUNTING FLANGE VARIATIONS	PART NUMBER
	25.3 [.996*] 27 [.106*] 27 [.106*]	19.8 [780]	XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3MBH-AU-B
	25.3 [.996"] 27. [106"] 27. [106"]	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-B
	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-B
	25.3 [996"] 35.3 [996"] 27 [106"] 3.5 [	19.8 (.780°)	XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack Mating connector shell to Pin 1	Nickel Finish	AC3MBH3-AU-B
	25.5 [ 996*] ————————————————————————————————————	19.8 [780]	XLR 3 pole male, Horizontal PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3MBHL-AU-B
	2.7 [.106*]————————————————————————————————————	19.8 (780)	XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3MBV-AU-B



#### **METAL B TYPE FLANGE**

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION/ GROUND LINK	MOUNTING FLANGE VARIATIONS	PART NUMBER
	2.7 [106]]———————————————————————————————————	XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis to Mating connector shell	Nickel Finish	AC3MBV1-AU-B
	2.7 [106"]————————————————————————————————————	XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack Mating connector shell to Chassis - Pin 1 sep. Ground	Nickel Finish	AC3MBV2-AU-B
	25.3 [ 996"]  -24.0 [ 945"]  -19.5 [ 786"]  -19.5 [ 786"]  -27. [ 106"]  -27. [ 106"]  -27. [ 106"]  -27. [ 106"]	XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack Mating connector shell to Pin 1	Nickel Finish	AC3MBV3-AU-B
	25.5 [ 996"] - 19.8 [ 780"] - 19.8 [	XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3FBH-AU-B
	23 [ 196"] - 19.8 [ 780"] - 19.8 [ 7	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-B
	25.5 [796"] - 19.8 [780"] - 19	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-B
	25.3 [396"] — 19.8 [780"] — 19	XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis	Nickel Finish	AC3FBH3-AU-B
	25.3 [.986] ————————————————————————————————————	XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3FBHL-AU-B



#### **METAL B TYPE FLANGE**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION/ GROUND LINK	MOUNTING FLANGE VARIATIONS	PART NUMBER
	2.7 [.106*]-	19.5 [768]	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-B
	2.7 [.106*]	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.	Nickel Finish	AC3FBHL2-AU-B
	25.3 [996"] 27. [106"]	19.5 [7.66"]	XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack Pin 1 to Chassis	Nickel Finish	AC3FBHL3-AU-B
	25.3 [396"] PUSH 27 [106"]	3.0 [187] -3.0 [385] -3.5 [140]	XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3FBV-AU-B
	25.5 [ 596"]  PUSH  PUSH  27 [ 106"]  27 [ 106"]	3.0 [187]	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-B
	25.3 [ 996"] PUSH PUSH PUSH 27 [ 106"]	3.0 [187] -220 [965] -35 [130]	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-B
	25.5 [996"] PUSH PUSH PUSH PUSH PUSH PUSH PUSH PUSH	2.0 [.167]	XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis	Nickel Finish	AC3FBV3-AU-B
	25.5 [.996"]	24.0 [345]	XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3FBVL-AU-B



#### **METAL B TYPE FLANGE**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION/ GROUND LINK	MOUNTING FLANGE VARIATIONS	PART NUMBER
	25.3 [996]	24.0 [845] 	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-B
	25.5 (9%)	240 [445]	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-B
	25.3 [996]	23.8 [937]	XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis	Nickel Finish	AC3FBVL3-AU-B



#### THERMOPLASTIC A - TYPE FLANGE 4 / 5 CONTACT



#### Features:

- 4 / 5 contacts.
- Thermoplastic Shell
- Industry standard PCB footprints.
- · Vertical or Horizontal PCB mounting.
- Precision machined pin contacts.
- · Gold plated contacts.
- Leading first mate last break socket contact.
- Bulk packed in trays, 100 to a box as standard.
- Positive latch lock system.

Options: Vertical or Horizontal PCB,

Part Number Breakdown: Page 37 PCB Footprints: Page 39 Recommended Fastener: Page 135

Specifications: Page 38 Panel Cutouts: Page 40

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	25.0 [.984*]  Amphenol  O  O  O  O  O  O  O  O  O  O  O  O  O	-19.5 [.768"]19.8 [.780"]	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 [.780]	25 [.984*] -25 [.984*] -27 [.106*]	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
	000000000000000000000000000000000000000	24 [.945]	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]	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 [.380.]	19.5 [.768"] PUSH PUSH PUSH PUSH PUSH PUSH PUSH PUSH	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



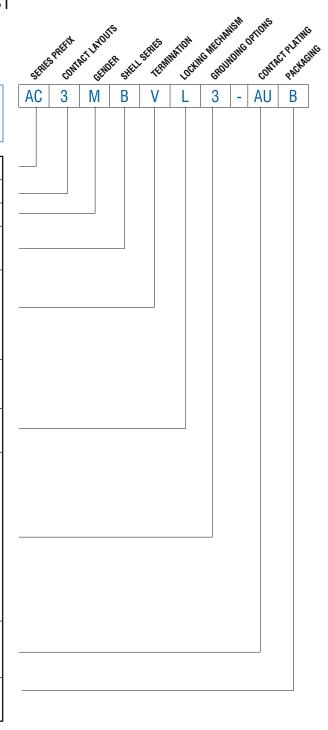


AC SERIES A AND B TYPE MALE - 3 CONTACT

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

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

SERIES PREFIX	AC	=	Series Prefix	
CONTACT LAYOUT	3	=	3 Contact only	
GENDER	M	=	Male Socket Contacts	
SHELL SERIES	Α	=	A Type	
SHELL SENIES	В	=	B Type	
	Н	=	Horizontal Printed Circuit Board	
TERMINATION	V	=	Vertical Printed Circuit Board	
	Blank	=	Solder Bucket Contacts	
MOUNTING FLANGE FINISH (B TYPE ONLY)	Blank	=	Nickel	
LOCKING	Blank	=	Latching	
MECHANISM	L	=	Latchless	
	Blank	=	No Ground Link	
	1	=	Pin 1 to Chassis to mating connector shell	
GROUNDING LINK OPTIONS	2	=	Mating Connector shell to Chassis, Pin 1 to separate ground	
	3	=	Mating connector to Pin 1	
	4	=	Mating connector to Shell to Chassis to PCB, Pin 1 separate ground	
	AU	=	Gold Plated Contacts	
CONTACT PLATING	AG	=	Silver Plated Contacts (Non-Standard)	
PACKAGING	PRE	=	Bulk Packed	
FACKAUINU	PRD	=	Disassembled push latch	



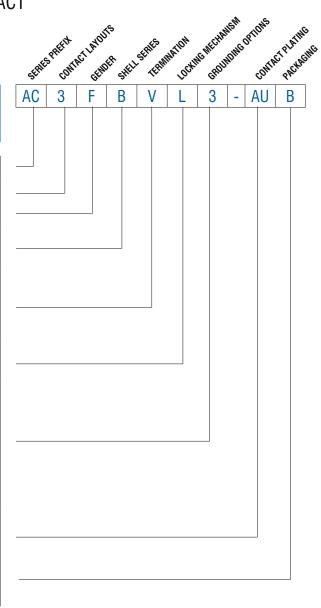


AC SERIES A AND B TYPE FEMALE - 3 CONTACT

#### 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), Bulk Packaged.

SERIES PREFIX	AC	=	Series Prefix
CONTACT LAYOUT	3	=	3 Contact only
GENDER	F	=	Female Socket Contacts
SHELL SERIES	A	=	A Type
SHELL SENIES	В	=	B Type
TERMINATION	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
FACKAUING	PRD	=	Disassembled push latch





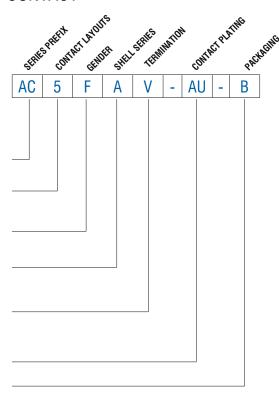


AC SERIES A TYPE MALE AND FEMALE - 4 / 5 CONTACT

#### 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	=	4 Contact
CUNTACT LATUUT	5	=	5 Contact
GENDER	F	=	Female Socket Contacts
GENDER	M	=	Male Pin Contacts
SHELL SERIES	А	=	A Type
TERMINATION	Н	=	Horizontal Printed Circuit Board
TERMINATION	V	=	Vertical Printed Circuit Board
CONTACT PLATING	AU	=	Gold Plated Contacts
PACKAGING	В	=	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)	(1 3 6 )	( 1	2 3 4			
	Termination		Printed Circuit Board (PCB)				
	Flammability rating of plastics		UL94V-0				
	Environmental	Complie	s with EU RoHS 2 Directive 201	1/65/EU			
ELECTRICAL	Service Voltage RMS		133V <sup>1</sup>				
CHARACTERISTICS	Test Voltage AC RMS		1500V				
	Current carrying capacity	6	A	3A			
	Typical Contact Resistance		≤5mΩ				
	Insulation Resistance (initial)		≥2GΩ				
	Insulation Resistance (after damp heat test)	≥ <b>1</b> GΩ					
CLIMATIC	Protection Class	IP40					
CHARACTERISTICS	Operating Temperature	-25°C to +75°C (-13°F to +167°F)					
MECHANICAL	Weight <sup>2</sup>		14g (0.030lb)				
CHARACTERISTICS	Retention Spring separating force		≥20N				
	Mounting Screw torque max.		1.5Nm				
	Mechanical Operations		1500 mating cycles				
	Fastening A Type Connectors <sup>3</sup>	Self-Tapping PT screw	with thread 2.9 x 1.06 and of Tr	ri-rondular configuration			
	Fastening B Type Connectors <sup>3</sup>		Self-Tapping screw M2.5				
MATERIALS	Connector Flange - B-Type		Diecast Zinc Alloy				
	Flange Finish - B-Type		Nickel				
	Insulators	PA6.6	+25% glass fibre reinforced, UL	.94V-0			
	Male Contact Material		Brass				
	Male Contact Plating		$0.05 \mu$ m gold over $2\mu$ m 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				

 $<sup>^{\</sup>rm 1}\,{\rm Not}$  suitable for domestic applications above 50V

 $<sup>{}^2\,\</sup>text{Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.}$ 

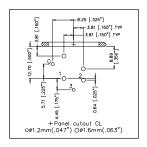
<sup>&</sup>lt;sup>3</sup> Refer to page 135



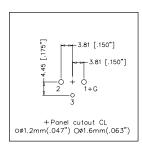
#### A AND B TYPE FLANGE

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

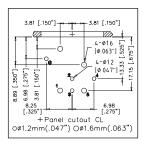
#### PCB FOOTPRINTS - CONNECTOR SIDE OF PCB



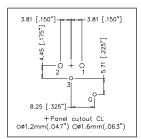
#### AC3FAH2 AC3FBH2



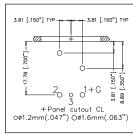
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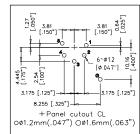
#### AC5FAH



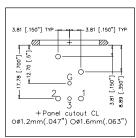
AC3FAV2 AC3FBV2



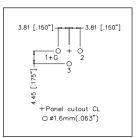
AC3MAH1 AC3MAH3 AC3MBH1 AC3MBH3 AC3MAH AC3MBH AC3MBHL



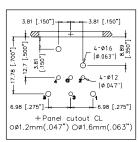
#### **AC5FAV**



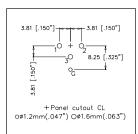
AC3MAH2 AC3MAH4 AC3MBH2



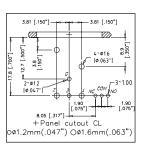
AC3MAV1 AC3MAV3 AC3MBV1 AC3MBV3 AC3MAV AC3MBV



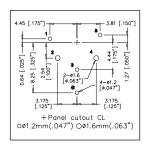
#### AC5MAH



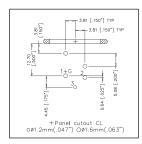
AC3MAV2 AC3MAV4 AC3MBV2



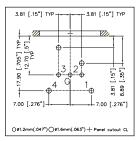
#### **AC3MAH4SWB**



**AC5MAV** 



AC3FAH3 AC3FBH1 AC3FBH3 AC3FAH AC3FBH



AC4MAH

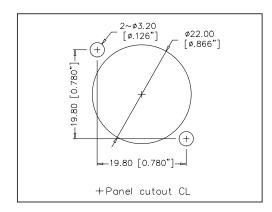




### **AC SERIES A AND B TYPE CHASSIS**

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

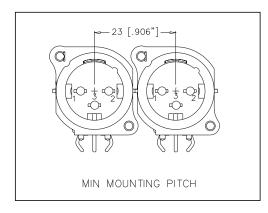
#### **A TYPE**

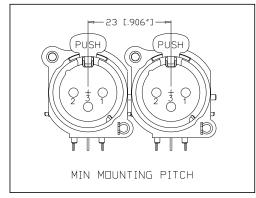


2~ø2.70 [ø.106"] ø22.00 [ø.866"] 80 l-19.80 [.780"]-니 Panel cutout CL

**B TYPE** 

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

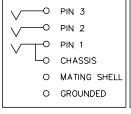


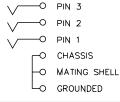


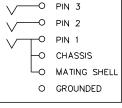
A AND **B TYPE FEMALE** MOUNTING **PITCH** 

### **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



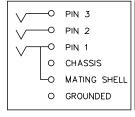


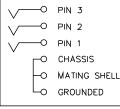


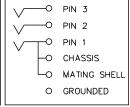


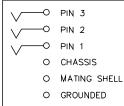
AC3MA/BH/V3-AU AC3MA/BH/VL3-AU AC3MA/BH/V2/4-AU AC3MA/BH/V1-AU AC3MA/BH/VL2/4-AU AC3MA/BH/VL1-AU

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













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

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

- 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.



#### **C - TYPE LOW PROFILE DUAL JACK / XLR CONNECTORS**

#### 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).





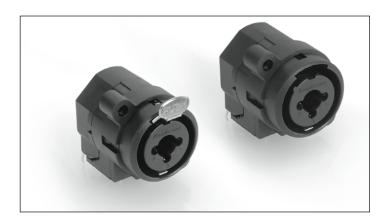
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
10	19 80   78 - -25 30   996 -	275 [1082] SCHEMATIC (HART  JACK  JACK  SCHEMATIC (HART  JACK  JACK  SCHEMATIC (HART  JACK  JAC	Low Profile XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Horizontal PCB mount, Bulk Pack	Latching	ACJC6AH BULK
0	19 80   78 - 19 80   78 - 10	275 [1082] SCHEMATIC CHART  JACK  XLR  OS  OS  OS  OS  OS  OS  OS  OS  OS  O	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	19 80   78   PUSA 18 80   78   19 80   78   10 80   78	24.0   94.5  SCHEMATIC CHART JACK XLR OS 0 2 0 1 0 1 0 G	Low Profile XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Vertical PCB mount, Bulk Pack	Latching	ACJC6AV2 BULK
	980   781 980   781	24.0   945  SCHEMATIC CHART JACK XLR 05 03 08 02 07 01 01 06	Low Profile XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC6AV2L BULK
	19 80   78  19 90   78  10 90	275   1082   SCHEMATIC CHART  JACK XLR  35   0   2  85   0   1  86   0   1  87   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 - 10	SCHEMATIC CHART  JACK  XLR  SIN 0 2  SIN 0 6	Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC9AHL BULK



PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
16	19 80   78  PAURICH PAURICH 25 3   996	24 0   945  37   146  SCHEMATIC CHART XLR JACK XLR   34   0   1   1   1   1   1   1   1   1   1	Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack, Vertical PCB mount, Bulk Pack	Latching	ACJC9AV2 BULK
10	19 80   78  19 80   78  10 80	24.0   94.5   37   14.6   SCHEMATIK (HART JAKK XLR JAKK X	Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC9AV2L BULK
10	19 80   78   19 80   178   178	275   1082   SCHEMATIC CHART  JACK XLR  JACK XLR  O 3  O 4  O 6  O 6  O 6  O 7	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   19   19   19   19   19   19   19   1	275 [1082]  SCHEMATIC CHART  JACK  SLR  JACK  SLR  SLR  O 1  SLR  O 0  O 0  O 0  O 0  O 0  O 0  O 0  O	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	19 80   78  19 80   78  10 80	37   14.6   SCHEMATIC CHART XIR  JACK XIR  38   0   2  38   0   0   6   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	Latching	ACJC10AV2 BULK
10	19 80   78   19 80   78   10	24.0   945  37   146  SCHEMATIC CHART JACK KIR J	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



#### C - TYPE DUAL JACK / **XLR CONNECTORS**



#### 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 47 Specifications: Page 49 PCB Footprints: Page 48 Recommended Fastener: Page 135

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	27 (1.063) -20 (787) -20 (787)	24 [945"] 10.6   SCHEMATIC CHART   MAC   MAR   O S   O	XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Horizontal PCB mount, Bulk Pack	Latching	ACJC5H BULK
	27 (1.063°) 20 (1.787°) (1.063	SCHEMATIC CHART  ADOS	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 [1.063*] 20 [.787*] 20 [.787*] 21 [.984*]	24 [345] [10.6] SCHEMBIC CHART  3.5 [138] 462	XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Vertical PCB mount, Bulk Pack	Latching	ACJC5V BULK
(6)	27 [1.063] 20 [787] 10 [.394]	24 [945"]  5.5 [135"]  SCHEMADIC CHART  4ACS  128  138  140  158  158  178  178  178  178  178  178	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 [1085] 20 [297] (094) (104) (1	24 [945] [417] SCHEMATIC CHART 45 [177] 4ACS M.R 0 3 0 1 7 [276]	XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Solder Contacts, Bulk Pack	Latching	ACJC5S BULK
30	27 [1.063"] 20 [178"] 10 [.394"]	24 [946] 45 [177] SCHEMATIC CHART  460 N.8 0 5 0 2 0 1 7 [276]	XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Solder Contacts, Bulk Pack	Non-latching, Retention Spring	ACJC5SL BULK



PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	27 [1083] -20 [1987] -20 [19	10.6   SCHEMATIC CHART   SCHEM	XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Horizontal PCB mount, Bulk Pack	Latching	ACJC6H BULK
	27 [1.085] -20 [1857] -20 [1	SOHEMATIC CHART  ACK  SUB  OR  OR  OR  OR  OR  OR  OR  OR  OR  O	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 [1.083] -20 [.787] -20 [.787]	3.5 [ 138"] 10.6 SCHEMATIC CHART ACC SUR OT	XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Vertical PCB mount, Bulk Pack	Latching	ACJC6V BULK
	27 (1.065°) 20 (1.787°) (1.06°) (1.06°) (1.06°) (1.06°) (1.06°) (1.06°) (1.06°) (1.06°) (1.06°) (1.06°) (1.06°) (1.06°) (1.06°)	24 [945]  3.5 [138]  SCHEMARIC CHART  400  SLB  OR  OR  OT  OR  OT  OG	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 [1.083] -20 [.787] -20 [.	10.6 4.5 [1777] 10.6 4.5 [1777] 10.6 10.6 10.6 10.6 10.6 10.6 10.6 10.6	XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Solder Contacts, Bulk Pack	Latching	ACJC6S BULK
10	27 (1.063°) 20 (7.83°) 10 (394°)	24 [945] 4.5 [177] SGHEMATIC CHART 4.5 [177] SGHEMATIC CHART 4.5 [177]  O	XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Solder Contacts, Bulk Pack	Non-latching, Retention Spring	ACJC6SL BULK
	27 [1087] -20 [1877] -20 [1877] -20 [187] -20	10,6   SCHEMATIC CHART   SCHEM	XLR 3 pole female receptacle with 1/4" switching stereo jack, Horizontal PCB mount, Bulk Pack	Latching	ACJC9H BULK
	27 [1.063'] -20 [.787'] -20 [.787'] -20 [.787'] -20 [.787'] -20 [.787'] -20 [.787'] -20 [.787']	SCHEMATIC CHART  MACK  M.R.  SCHEMATIC CHART  MACK  M.R.  SO, S. O. S.  S. O	XLR 3 pole female receptacle with 1/4" switching stereo jack, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC9HL BULK



PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	27 [1 (63)] 20 [78] 20 [78] 21 [2 (3)] 21 [2 (3)] 21 [2 (3)] 21 [2 (3)] 21 [2 (3)]	2-24 [946*] [10.6] SCHEMATIC CHART  3.5 [138*] SCHEMATIC CHART  ACC SLE  OSN 0 2  OSN 0 1  OSN 0 1  T [276*] OSN 0 6	XLR 3 pole female receptacle with 1/4" switching stereo jack, Vertical PCB mount, Bulk Pack	Latching	ACJC9V BULK
	27 [1.065] 20 [.787] 10 [.394]	24 [940]  50 [135]  SCHEMATIC CHART  ACC SUB  CONTROL OF THE PROPERTY OF THE P	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 (287) -20 (287)	24 [346"] [417"] SCHEMATIC CHART 4.5 [177"]	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 [940*]  SCHEMATIC CHART  4ACS  NR  OSN  OSN  OSN  OSN  OSN  OSN  OSN	XLR 3 pole female receptacle with 1/4" switching stereo jack, Solder Contacts, Bulk Pack	Non-latching, Retention Spring	ACJC9SL BULK
	27 (1.063) -20 [.787] -20 [.787]	24 [.945*]   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 [1.063] 20 [787] 10 [394]	SCHEMATIC CHART  ACC SUB STATE OF THE PROPERTY	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 (1 063") 20 (187") (10 (184") 10 (184")	24 [946"] [0.6] SCHEMATIC CHART  460 SLE  0 3  0 5  0 7  7 [276"] N 0 6  7 [276"] O N	XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Vertical PCB mount, Bulk Pack	Latching	ACJC10V BULK
	27 (1.063°) 20 [.787°] 10 [.394°]	24 [945]  SCHEMATIC CHART  4AOS ** SLR  O 3  O 2  O 3  O 3  O 7  O 8N  O 1  O 7  O 1  O N  O N  O N	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



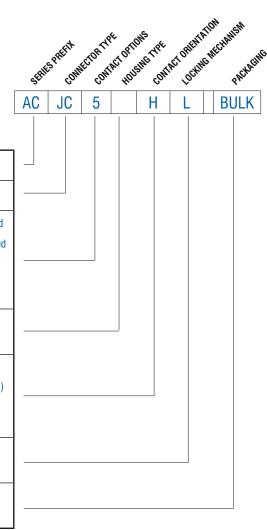
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
10	27 [1:65] -20 [287] -20 [287]	24 [945] 10.6 (-117] SCHEMATIC CHART  450 NR	XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Solder Contacts, Bulk Pack	Latching	ACJC10S BULK
	27 (1.05x*) 20 (7.0x*) 10 (3.94*)	24 [945]  55 [1777]  400  28  29  20  20  20  20  20  20  20  20  20	XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Solder Contacts, Bulk Pack	Non-latching, Retention Spring	ACJC10SL BULK

### PART NUMBER BREAKDOWN

#### AC SERIES THERMOPLASTIC C TYPE

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

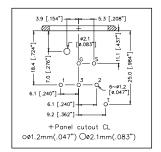
SERIES PREFIX	AC	=	Series Prefix
CONNECTOR TYPE	JC	=	Jack / Connector XLR
	5	=	Mono, Non Switching, XLR Grounded
	6	=	Stereo, Non Switching, XLR Grounded
CONTACT OPTIONS	9	=	Stereo, Switching, XLR Grounded
	10	=	Stereo, Switching, XLR with Ground Switch
HOHEING TYPE	Blank	=	Standard
HOUSING TYPE	Α	=	Low Profile / High Density
	٧	=	Vertical Pritned Circuit Board
CONTACT TYPE	V2	=	Vertical Printed Circuit Board (24mm)
CONTACT TIPE	Н	=	Horizontal Printed Circuit Board
	S	=	Solder Contacts
LOCKING	Blank	=	Latching
MECHANISM	L	=	Latchless
DAOVAOINO	Blank	=	Individual Bags
PACKAGING	BULK	=	Bulk Packed

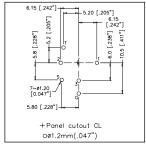


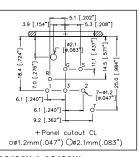


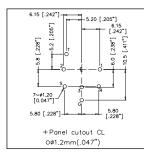
### ENTERTAINMENT@AMPHENOL

### **AC SERIES C TYPE SERIES**

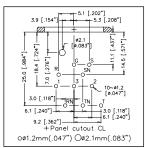




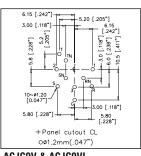




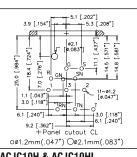
**ACJC5H & ACJC5HL** 



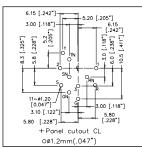
**ACJC5V & ACJC5VL** 



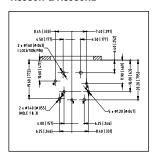
ACJC6H & ACJC6HL



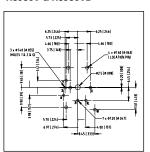
**ACJC6V & ACJC6VL** 



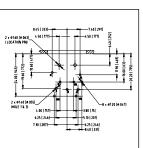
ACJC9H & ACJC9HL



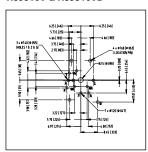
**ACJC9V & ACJC9VL** 



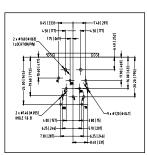
ACJC10H & ACJC10HL



ACJC10V & ACJC10VL



**ACJC6AH & ACJC6AHL** 



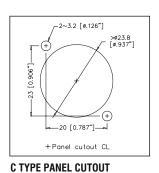
ACJC6AV2 & ACJC6AV2L



**ACJC9AH & ACJC9AHL** 

ACJC9AV2 & ACJC9AV2L

ACJC10AH & ACJC10AHL



MIN MOUNTING PITCH

19.80 [.780] 780] Ø22.0 \ Ø.8661 108.61 Ø3.2 [Ø.126] 2 HOLES PANEL CUT OUT

-23 0 I 906l-MIN MOUNTING PITCH

**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			
Number of contacts	5, 6, 9	or 10			
Termination	Printed Circuit Board (PCB)	Printed Circuit Board (PCB) or Solder Bucket			
Flammability	UL 9	)4HB			
Environmental	Complies with EU RoHS	2 Directive 2011/65/EU			
Service Voltage RMS	50	V			
Test Voltage AC RMS	150	00V			
Current carrying capacity	7.	5A			
Typical Contact Resistance	≤50mΩ				
Insulation Resistance (initial)	> 0.	5GΩ			
Insulation Resistance (after damp heat test)	> 0.1	2GΩ			
Protection Class	IP	40			
Operating Temperature	-25°C to	) +70°C			
Weight**	9.2g (0.02lb)	14g (0.030lb)			
Retention Spring separating force	≥2	ON			
Mounting Screw torque max.	1.5	5Nm			
Mechanical Operations	1500 ma	ting cycles			
Fastening***	Self-Tapping PT screw with thread 2.9	x 1.06 and of Tri-rondular configuration			
Connector Shell Shell Finish	PA6.6 + 30% glass fibre reinforced, UL94HB	PA6.6 + 20% glass fibre reinforced, UL94HB Black			
Insulators	PA6.6 glass fibre reinforced, UL94HB	PA6.6 + 20% glass fibre reinforced, UL94HB			
XLR Contact Material	Bronze				
Plating	Gold over	Nickel plated			
Jack Contact					
Material	Bronze	Brass			
Plating	Gold over Nickel plated	Silver over Copper plated			
Latch lock and Spring	Nicke	el Plated			
Ground element	Nickel Plated	Silver over Copper plated			
	Termination Flammability Environmental Service Voltage RMS Test Voltage AC RMS Current carrying capacity Typical Contact Resistance Insulation Resistance (initial) Insulation Resistance (after damp heat test) Protection Class Operating Temperature Weight** Retention Spring separating force Mounting Screw torque max. Mechanical Operations Fastening*** Connector Shell Shell Finish Insulators XLR Contact Material Plating Jack Contact Material Plating Latch lock and Spring	Number of contacts     LOW PROFILE TYPE       Termination     Printed Circuit Board (PCB)       Flammability     UL S       Environmental     Complies with EU RoHS       Service Voltage RMS     56       Test Voltage AC RMS     150       Current carrying capacity     7.       Typical Contact Resistance     \$500       Insulation Resistance (initial)     > 0.       Insulation Resistance (after damp heat test)     > 0.       Protection Class     IP       Operating Temperature     -25°C to       Weight**     9.2g (0.02lb)       Retention Spring separating force     \$2       Mounting Screw torque max.     1.3       Mechanical Operations     1500 ma       Fastening***     Self-Tapping PT screw with thread 2.9 stell Finish       Insulators     PA6.6 glass fibre reinforced, UL94HB       XLR Contact     Material       Material     Br       Plating     Gold over       Latch lock and Spring     Nicket			

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

<sup>\*\*\*</sup>Refer to Page 135





#### HIGH POWER / LOUDSPEAKER CONNECTORS

### SP/HP/EP/ AP SERIES HIGH POWER / LOUDSPEAKER CONNECTORS

#### **SP Series**

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

#### **Features**

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

#### **Options**

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

#### **HP Series**

The HP Series connectors are suitable for power applications where a latch locking connector is required. They are rated at 25A / 250Vac.

#### **Features**

- Quick release, vibration resistant latch lock.
- Power connectors colour coded and keyed for power-in (Blue) and power-out (Grey)
- UL, cUL recognized components (File no. E339831)
- Precision machined contacts

#### **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

- 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.



#### SP SERIES LOUDSPEAKER CONNECTORS



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
   30A Current rating

- Thermoplastic or Metal housing (Cable Plugs)
- UL, cUL recognized components (File no. E339831)
- Industry standard mating



Part Number Breakdown: Page 55 **Specifications: Page 59** PCB Footprints: Page 57 **Assembly Instructions: 58** 

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	CONTACT TYPE	SHELL COLOUR	PART NUMBER
	-	[3.43"]	2 pole, Cable connector, Thermoplastic shell,	Screw	Black	SP-2-F
	φ28 [1.10**]		Blue sleeve	Solder	Black	SP-2-FS
	l=	111 [4.36"]	2 pole, Cable connector, Thermoplastic shell,	Screw	Black	SP-2-FG
The second	928 [109*]	[4.36"]	Blue sleeve, PG Gland	Solder	Black	SP-2-FSG
(m.		179	2 pole, Cable connector, Thermoplastic shell,	Screw	Black	SP-2-FL
Manufacture.	Blue	Blue sleeve, PG Gland strain relief	Solder	Black	SP-2-FSL	
	-	[3.43"]	2 pole, Cable connector, Metal shell, Blue sleeve	Screw	Nickel	SP-2-FN
	φ 28 [1.10°]	ivietai Sileii, Blue Sieeve	Solder	Nickel	SP-2-FNS	
To the same of the			Screw	Black	SP-2-FB	
			Solder	Black	SP-2-FBS	
	-	111 [4.36"]	2 pole, Cable connector, Metal shell, Blue sleeve,	Screw	Nickel	SP-2-FNG
		[4.36"]	PG Gland	Solder	Nickel	SP-2-FNSG
	\$28 [11.09**]			Screw	Black	SP-2-FBG
			Solder	Black	SP-2-FBSG	
0	179 [7.06°]	2 pole, Cable connector, Metal shell, Blue sleeve,	Screw	Nickel	SP-2-FNL	
William .		PG Gland strain relief	Solder	Nickel	SP-2-FNSL	
	1			Screw	Black	SP-2-FBL
				Solder	Black	SP-2-FBSL



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
	\$28 [110.1]		shell, Blue sleeve	Solder	Black	SP-4-FS
	-	_ 111 [4.36"]	4 pole, Cable connector, Thermoplastic black	Screw	Black	SP-4-FG
	\$ 0.58   [1.09·1]	[4.36"]	shell, Blue sleeve, PG Gland	Solder	Black	SP-4-FSG
0		170	4 pole, Cable connector, Thermoplastic black	Screw	Black	SP-4-FL
Samuel Control	17.06" she		shell, Blue sleeve, PG Gland strain relief	Solder	Black	SP-4-FSL
			4 pole, Cable connector, Metal shell, Blue sleeve	Screw	Nickel	SP-4-FN
		[5.45]	ivietai Sileii, Dide Siceve	Solder	Nickel	SP-4-FNS
To the same of the	(1.10°1)			Screw	Black	SP-4-FB
	* <u>E</u>			Solder	Black	SP-4-FBS
		111	4 pole, Cable connector, Metal shell, Blue sleeve,	Screw	Nickel	SP-4-FNG
		- 111 (4.36")	PG Gland	Solder	Nickel	SP-4-FNSG
Pa	0.28			Screw	Black	SP-4-FBG
				Solder	Black	SP-4-FBSG
		170	4 pole, Cable connector, Metal shell, Blue sleeve,	Screw	Nickel	SP-4-FNL
COMPANIE OF THE PARIE OF THE PA	17	179 7.06"	PG Gland strain relief	Solder	Nickel	SP-4-FNSL
	110.1			Screw	Black	SP-4-FBL
		#FTVWWWW.		Solder	Black	SP-4-FBSL



PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	0.00 / 10 / 10 / 10 / 10 / 10 / 10 / 10	28.2 (1.110°1) (	2 pole, D flange, Thru holes, Solder tabs 3/16"	Black	SP-2-MD
	26.0 (1,024.) 01,024.)	260 (1024') (1024') (1024') (1024')	2 pole, D flange, Thru holes, Horizontal PCB	Black	SP-2-MDH
	26.0 (1,024.1) (1,024.1)	26.5 3.5 (10.138°) (10.138	2 pole, D flange, Thru holes, Vertical PCB	Black	SP-2-MDV
	26.0 (1,024.1) (1,024.1) (1,024.1) (1,024.1) (1,024.1) (1,024.1)	282 (1110°1) (	4 pole, D flange, Thru holes, Solder tabs 3/16"	Black	SP-4-MD
	26.0 (10.24°)	282 (1.11') (1.69') (1.69') (1.69') (1.69')	4 pole, D flange, Thru holes, Solder tabs 3/16"	Grey	SP-4-MD-8
	100 100 100 100 100 100 100 100 100 100	282 (1110°) (0.169°) (0.169°)	4 pole, D flange, Self Tapping holes, Solder tabs 3/16"	Black	SP-4-MDT
	26.04.1 1.022.1 1.024.1 1.0	1024·1 (024·1)	4 pole, D flange, Thru holes, Horizontal PCB	Black	SP-4-MDH
	26.0 (1.024')  26.0 (1.024')  (1.024')  (2.00 (1.024')  (3.00 (1.024')  (4.00 (1.024')  (5.00 (1.024')  (5.00 (1.024')  (6.00 (1.024')  (7.00	96 (0.378*) 96 (0.378*) 96 (0.378*) 97 (0.378*) 97 (0.378*) 98 (0.378*) 99 (0.378*)	4 pole, D flange, Thru holes, Solder tabs 1/4"	Black	SP-4-MDQ

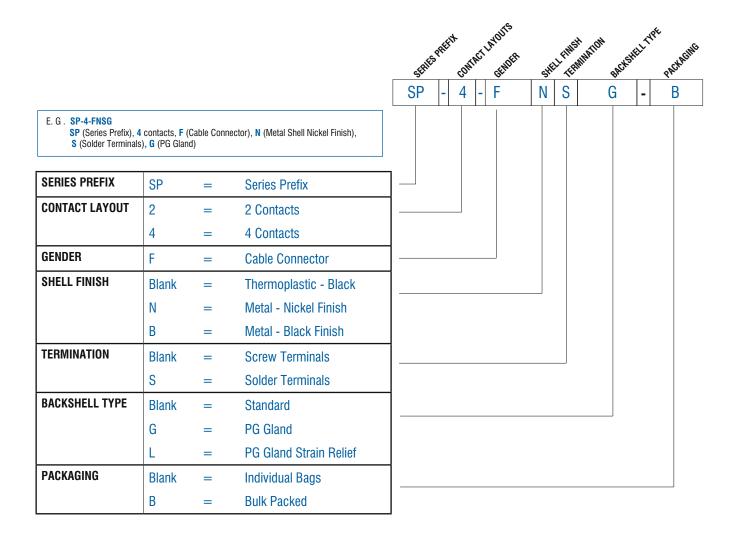


PRODUCT - FIGURE		DESCRIPTION	VARIATIONS	PART NUMBER
	1.0241 1.0241 1.0241 1.0241 1.0241 1.0241 1.0241 1.0241 1.0241 1.0241 1.0241 1.0241 1.0241 1.0241 1.0241 1.0241	4 pole, D flange, Self Tapping holes, Horizontal PCB	Grey	SP-4-MDHT-8
	260 (1024*) (1024*) (1024*) (1024*) (1024*) (1024*) (1024*)	4 pole, D flange, Self Tapping holes, Horizontal PCB	Black	SP-4-MDHT
	25 45 (1981)	4 pole, D flange, Thru holes, Vertical PCB	Black	SP-4-MDV
	26.0 (1024') 26.5 (1043') (0138')	4 pole, D flange, Thru holes, Vertical PCB	Red	SP-4-MDV-2
	250 (1024') (0157')	4 pole, D flange, Self Tapping holes, Vertical PCB	Grey	SP-4-MDVT-8
0	292 (119') 17P  (Amphano)  (Amphano)  (Amphano)  (Anghano)  (Angha	4 pole, EP flange, Thru holes, Solder tabs 3/16"	Black	SP-4-MC





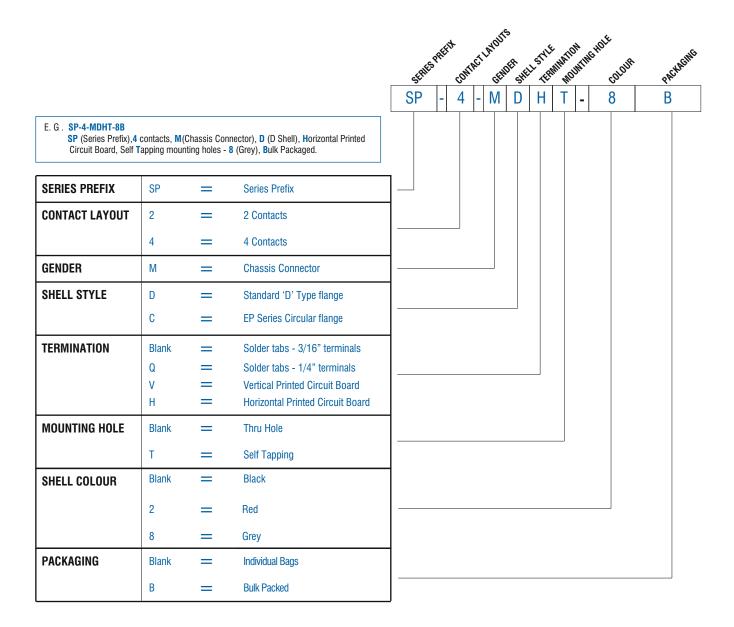
SP SERIES - CABLE CONNECTORS







SP SERIES - CHASSIS CONNECTORS

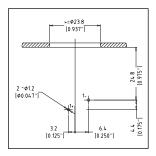






### **SP SERIES**

SP-2-MDH

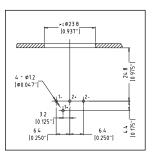


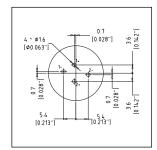
0.7 [0.028"] 2 ~ \$016 [\$0.063"]

[0.213"]

SP-2-MDV

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

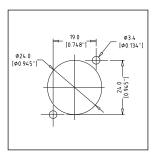


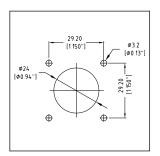


SP-4-MDV SP-4-MDV-2 SP-4-MDVT-8

#### **SP SERIES PANEL CUTOUT**

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





SP-4-MC

### PI 1070 ASSEMBLY

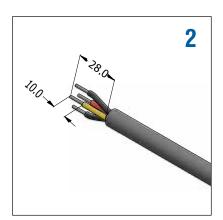
**SP SERIES CABLE CONNECTOR** 

**INSTRUCTIONS** 

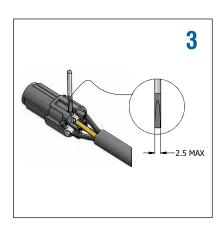




Slide the nut onto the cable



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.



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	30A
	Typical Contact Resistance	≤3mΩ
	Insulation Resistance (initial)	≥2GΩ
	Insulation Resistance (after damp heat test)	≥1GΩ
CLIMATIC	Protection Class (Mated Condition)	IP20 (IP40)
CHARACTERISTICS	Operating Temperature	-25°C to +75°C (-13°F to +167°F)
MECHANICAL	Weight** - Chassis Connectors	12g (0.026lb)
CHARACTERISTICS	Weight** - Cable Plug - Thermoplastic - Metal	44g (0.097lb) 65g (0.143lb)
	Weight** - Cable Plug PG - Thermoplastic - Metal	44g (0.097lb) 65g (0.143lb)
	Weight** - Cable Plug PG S/Relief - Thermoplastic - Metal	68g (0.150lb) 89g (0.196lb)
	Typical Cable retention force	200N (Subject to cable material and 0.D.)
	Cable O.D range - Chuck Clamp - PG16 Gland - PG16 Gland S/Relief	2 pole 4 pole 5-10mm (0.19" - 0.39") 9-14mm (0.35" - 0.55") 6-12mm (0.23" - 0.47") 8-14mm (0.31" - 0.55") 9-14mm (0.35" - 0.55") 9-14mm (0.35" - 0.55")
	Conductor Size - Screw Terminals - Solder Bucket	1.5mm² - 4mm² (AWG16 - AWG12) 1.5mm² - 6mm² (AWG16 - AWG10)
MATERIALS	Connector Shell / Finish - Cable Plug Thermoplastic - Cable Plug Metal	PA66 GF30 / Black Diecast Zinc Alloy / Nickel or Black
	Insulators - Chassis - Cable Plugs	PA66 GF20 PA66 GF30
	Cable Boot / Backshell	Santoprene / PA6 GF 15
	Cable Clamp (Chuck)	P.O.M
	Cable Clamp (PG)	Polyemide / EPDM
	Sleeve	PBT
	Contact Chassis - Material / Plating Contact Cable Plug	Phosphor Bronze / Silver
	- Material / Plating	Brass / Silver

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

Not suitable for domestic applications above 50V



#### **HP POWER CONNECTORS**



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

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

**Specifications: Page 61** 

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	CONTACT TYPE	SHELL COLOUR	PART NUMBER
-	926 4	91	3 pole, Cable connector, Thermoplastic shell, Blue sleeve, keyed for power-in	Screw	Blue	HP-3-F
170	976.4	1921 1922/1	3 pole, Cable connector, Thermoplastic shell, Grey sleeve, keyed for power-out	Screw	Grey	HP-3-FG
10	726.0 11.0224	72-2 10,9531 10,9531 10,9531 10,9531 10,9531 10,9531 10,9531 10,9531 10,9531 10,9531 10,9531 10,9531	3 pole, Chassis connector, Thermoplastic shell, Blue, keyed for power-in	Solder Tab 3/16"	Blue	HP-3-MD
10	25.5 11.0024 1 21.5 21.5 21.5 21.5 21.5 21.5 21.5 21.	22.2 (.95.3) (.95.3	3 pole, Chassis connector, Thermoplastic shell, Grey, keyed for power-out	Solder Tab 3/16"	Grey	HP-3-MDG
(0)	26.0 (1,024)	24.7 (0.972) (0.972	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 1.0221	22.7 1.9721	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.



#### **EP METAL TYPE - SOLDER**



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 65
Panel Cutouts: Page 66

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			EP Male cable connector,	3 pole nickel finish	EP-3-12
SE .		TONEHAWV	Machined contacts, Metal Shell	3 pole black finish	EP-3-12B
- Care		64.0 [2.521"]	IVIELAI SITEII	4 pole nickel finish	EP-4-12
		[3.366"]————		4 pole black finish	EP-4-12B
A				5 pole nickel finish	EP-5-12
				5 pole black finish	EP-5-12B
	-PIN INSU	ILA TORCAB	PLE CLAMP FBUSHING	6 pole nickel finish	EP-6-12
ISO ASSEMBLY OF EP MALE		To of Miles		6 pole black finish	EP-6-12B
LI MALL				8 pole nickel finish	EP-8-12
				8 pole black finish	EP-8-12B
			EP Female cable	3 pole nickel finish	EP-3-11P
19	© 288 [01.132']	connector, Machined contacts, Metal Shell	3 pole black finish	EP-3-11PB	
1 500		66.8 [2.63*]		4 pole nickel finish	EP-4-11P
	88.0			4 pole black finish	EP-4-11PB
				5 pole nickel finish	EP-5-11P
0.0		7		5 pole black finish	EP-5-11PB
	N Nic	ISULATOR SHELL	CLAMP BUSHING	6 pole nickel finish	EP-6-11P
ISO ASSEMBLY OF				6 pole black finish	EP-6-11PB
EP FEMALE				8 pole nickel finish	EP-8-11P
				8 pole black finish	EP-8-11PB



#### **EP METAL TYPE - SOLDER**

PRODUCT - FIGURE	DRAWING Dimensions in mm (inche	DESCRIPTION	VARIATIONS	PART NUMBER
		EP Male chassis	3 pole nickel finish	EP-3-14
		mount, Round Flange, Machined contacts,	3 pole black finish	EP-3-14B
		Metal Shell	4 pole nickel finish	EP-4-14
-1 0			4 pole black finish	EP-4-14B
(3)	29.2 [1,1487]	#28.8 [#1.132"]=	5 pole nickel finish	EP-5-14
()	AMPHRIOL "	-028	5 pole black finish	EP-5-14B
0	29.2 [1.148"] - 3.5 [.138"]		6 pole nickel finish	EP-6-14
	□ •50.8 [•2"] □ □ □ 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
	<del>  </del>	Metal Sileli	4 pole nickel finish	EP-4-13P
100			4 pole black finish	EP-4-13PB
	29 E [[148]-	38.3 [1.5087]	5 pole nickel finish	EP-5-13P
		38.7	5 pole black finish	EP-5-13PB
	###NOL   -35 [138*]   -35 [138*]   -365 [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



#### **AP THERMOPLASTIC TYPE - SOLDER**



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

#### Features:

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

Specifications: Page 65 Panel Cutouts: Page 66

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			AP Male cable connector,	4 pole	AP-4-12
We Company	AMPLENC	28.8	Machined contacts, Thermoplastic	5 pole	AP-5-12
8			Black shell.	6 pole	AP-6-12
	100.0 [3.937*]			8 pole	AP-8-12
			AP Female cable connector,	4 pole	AP-4-11
119-50		ø28.8 [1.132*]	Machined contacts, Thermoplastic	5 pole	AP-5-11
(6)			Black shell.	6 pole	AP-6-11
	98.7 [3.886*]—	d		8 pole	AP-8-11
			AP Male chassis mount,	4 pole	AP-4-14
	29.2 [1.15 <sup>2</sup> ]	-932.4 [91.276"]	Round Flange, Machined contacts,	5 pole	AP-5-14
	AMPHEOL	2.8 (.11°) 	Thermoplastic Black shell.	6 pole	AP-6-14
	## 29.2 [1.15"] ## ## ## ## ## ## ## ## ## ## ## ## ##			8 pole	AP-8-14
		7.5 [.295"]	AP Female chassis mount,	4 pole	AP-4-13
	29.2 [1.148]	-0324 (91.276°)-	Round Flange, Machined contacts, Thermoplastic Black shell.	5 pole	AP-5-13
	AMPRICAL PROPERTY AND ADDRESS OF THE PARTY AND			6 pole	AP-6-13
	450.8 [\$2"]	2.8 [.11*] 	DIACK SHCII.	8 pole	AP-8-13
		<u></u>	AP Male chassis mount,	4 pole	AP-4-22
	89.2 [1.148 <sup>2</sup> ]	632.4 [01.276"]~	Rectangular Flange, Machined contacts,	5 pole	AP-5-22
	AMPHENOL		Thermoplastic Black shell.	6 pole	AP-6-22
Service Servic	40.0 (1.575")———————————————————————————————————	2.8 [.11"] 	Didok Siloli.	8 pole	AP-8-22
		7.5 [.295"]	AP Female chassis mount, Rectangular Flange, Machined contacts, Thermoplastic Black shell.	4 pole	AP-4-21
	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- 632.4 [61.276] - 10.0 [61.27		5 pole	AP-5-21
	(AMPHEROL)			6 pole	AP-6-21
(22)	- 29.2 [1.148*] - 40.0 [1.575*]	2.8 (.11°) 	S.dort offon	8 pole	AP-8-21



### **STANDARD DATA EP/AP**

			VALUE				
Number of contacts	3	4	5	6	8		
Contact Arrangements (Front view of pin insert)	0 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	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 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
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			
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				
Protection Class			IP40				
Operating Temperature		-25°C to	) +75°C (-13°F to	+167°F)			
Weight - EP 11 & 12 2)	80g	84g	86g	86g	86g		
	(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 2)	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		
<u> </u>	1000 mating cycles						
	Contact Arrangements (Front view of pin insert)  Termination  Wire Gauge - Stranded wire:  Flammability  Environmental  Service Voltage RMS  Test Voltage AC RMS  Current carrying capacity  Typicial Contact Resistance  Insulation Resistance  Protection Class  Operating Temperature  Weight - EP 11 & 12 21  Weight - AP 11 & 12 21  Weight - AP 11 & 12 22  Weight - AP 13, 14, 21 & 22 21	Contact Arrangements (Front view of pin insert)  Termination  Wire Gauge - Stranded wire: 12AWG  Flammability  Environmental  Service Voltage RMS 10 460V  Test Voltage AC RMS 2400V  Current carrying capacity 20A  Typicial Contact Resistance  Insulation Resistance  Protection Class  Operating Temperature  Weight - EP 11 & 12 20 80g (0.176lb)  Weight - AP 11 & 12 20 N/A  Weight - AP 11 & 12 20 N/A	Contact Arrangements (Front view of pin insert)  Termination  Wire Gauge - Stranded wire:  12AWG  12AWG  Flammability  Environmental  Service Voltage RMS  460V  660V  Test Voltage AC RMS  2400V  3000V  Current carrying capacity  20A  20A  Typicial Contact Resistance  Insulation Resistance  Protection Class  Operating Temperature  -25°C to Weight - EP 11 & 12°  48g  50g  (0.176lb)  Weight - AP 11 & 12°  N/A  42g  (0.092lb)  Weight - AP 13, 14, 21 & 22°  N/A  26g  (0.057lb)	Number of contacts         3         4         5           Contact Arrangements (Front view of pin insert)         SOLDER           Wire Gauge - Stranded wire:         12AWG         12AWG         12AWG           Hammability         UL94V-0         UL94V-0         Environmental         Complies with EU RoHS 2 Directive Voltage RMS <sup>-1</sup> 460V         660V         200V           Test Voltage AC RMS         2400V         3000V         1600V         1600V         Current carrying capacity         20A         20A         20A         20A         20A         Typicial Contact Resistance         \$\sim 1000M\Omega\$         \$\sim	Number of contacts   3		

 $<sup>\</sup>stackrel{\scriptscriptstyle{1)}}{\rm Not}$  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.

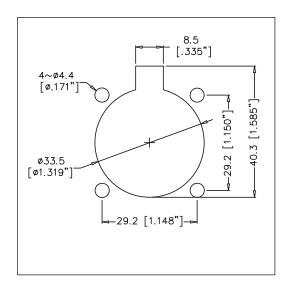


### STANDARD DATA EP/AP (CONT'D)

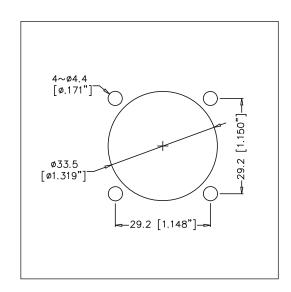
		DETAILS				
MATERIALS	ТҮРЕ	AP	EP			
	Connector shell	Modified PPE Resin	Diecast Zinc Alloy			
	Shell finish	Black	Satin Nickel or Black			
	Insulators	UL94V-0 PBT Resin				
	Cable Bushing	Silicon Rubber	UL94 HB Thermoplastic Elastomer			
	Male contact Machined - Solder					
	Material / Plating	Brass / B	right 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









# AMPHE-DANTE ADAPTERS

Amphe-Dante are Dante™ audio to analogue audio adapters, each with one RJ45 Dante input, and one and two (respectively) AX series XLR analogue outputs in a molded housing. Amphe-Dante products enable simple connection of analogue equipment to a Dante network and can receive audio channels from a Dante network and provide studio-quality, low-latency audio via an XLR connector to analogue audio equipment. Any audio available on the Dante network can be routed via the XLR outputs to an amplifier, powered speaker, mixing console, digital signal processor (DSP), or other analogue audio device.

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.

#### **Dante Controller**



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

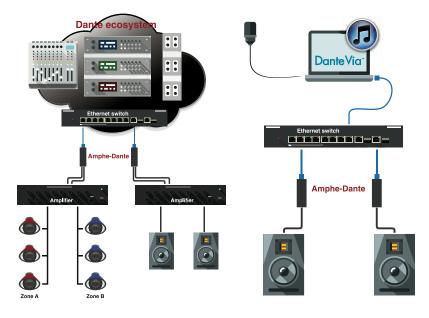






- Features: • Dante  $^{\circledR}$  audio input
- One channel or Two channel analogue output
- Durable overmolded housing
- Resilient cable strain relief
- RJ45 metal connectors with integrated LED's
- AX Series XLR connectors

PRODUCT - FIGURE	DRAWING Dimensions in mm (inch	DESCRIPTION	LENGTH	PART NUMBER
	72	Dante® audio to analogue audio adapter, 0x1, RJ45 input, 1 channel XLR output.	500mm	RJD1112-0050
C Br.	- Ampho-Dands   >	Dante® audio to analogue audio adapter, 0x2, RJ45 input, 2 channel XLR output.	500mm	RJD1212-0050



Example 1 Example 2

#### **Example 1 - Connecting analog audio** equipment to a Dante system

Amphe-Dante can be used to easily integrate traditional analog audio equipment into a networked Dante system. A large ecosystem of Dante devices is available, including Dante-enabled mixing consoles, DSP units and wall plates. In the far left diagram, a zoned audio system is shown with traditional analog amplifiers and speakers connected to the Dante network using Amphe-Dante devices.

#### **Example 2 - Routing local computer audio to** traditional devices over a Dante network

In combination with Dante Via software, Amphe-Dante can create simple audio systems using computer software (e.g. iTunes  $^{\circledR}$ , Spotify  $^{\circledR}$ , etc) and USB audio devices (e.g. a microphone). In the adjacent near left diagram below, a simple background music system with a microphone input for announcements is shown, where Amphe-Dante is used to connect networked audio channels to a pair of traditional analog powered loudspeakers.



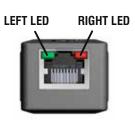


### **SPECIFICATIONS**

		RJD1112-XXXX*	RJD1212-XXXXX*	
GENERAL	Input Connector	1 x RJ45 (Ethernet)		
	Output Connector	1x XLR Male	2x XLR Male	
ELECTRICAL	Power Consumption	< 2 Watt		
	Power over Ethernet (Required)	Class 1 IEEE 802.3af POE PD compliant		
ANALOG AUDIO	Output level (Balanced)	+4dBu @ 0dBFS		
	Output Impedance	150 ohm balanced or 75 ohm unbalanced		
	Frequency Response	20 Hz to 20 kHz (-/+0.5 dB)		
	Dynamic Range	> 100 dB		
	Signal to Noise	> 100 dB		
	Total Harmonic Distortion	< 0.05% at +4 dBu		
	Channel Separation	N/A	> 100 dB	
	Channel Matching	N/A	< 0.25 dB	
DANTE® AUDIO	Number of Channels	1 output channel	2 output channels	
	Sample Rate	44.1 kHz, 48 kHz (default), and 96 kHz		
	Bit Depth	24 bits		
	Network Speed	100 Mbps		
CLIMATIC	Protection Class	IP41		
	Operating Temperature	-5°C to +60°C (23°F to +140°F)		
MECHANICAL	Insertion and Withdrawal Force	≥10N - ≤30N		
	Weight Single Channel XLR Two Channel XLR	136g (0.299lb) 192g (0.423lb)		
MATERIALS	Housing	PVC 60P Black		

<sup>\*</sup>XXXX denotes length

### **LED STATUS**



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



# XLRnet 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 and complete shielding options we have your high-speed data requirements covered.

#### **Features**

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

#### **Options**

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

#### **Ordering Codes**

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

### 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**

#### 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

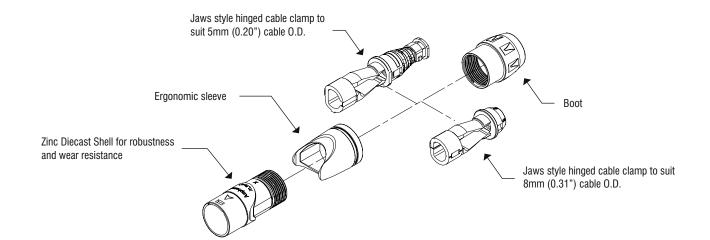
Specifications: Page 72 Part Number Breakdown : Page 72

Assembly Instructions: Page 73

 $\ensuremath{\text{NOTE^*RJ45}}$  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		84 [3.31"]	XLRnet, XLR cable plug housing to suit preas- sembled RJ45 cables, Nickel Finish	Standard	RJX8M
	(81") Auphenol		WORKET FILLS	Bulk Pack	RJX8M BULK
Control of the Contro	-	[3.31"]	XLRnet, XLR cable plug housing to suit preas- sembled RJ45 cables,	Standard	RJX8MB
	### ##################################		Black Finish	Bulk Pack	RJX8MB BULK

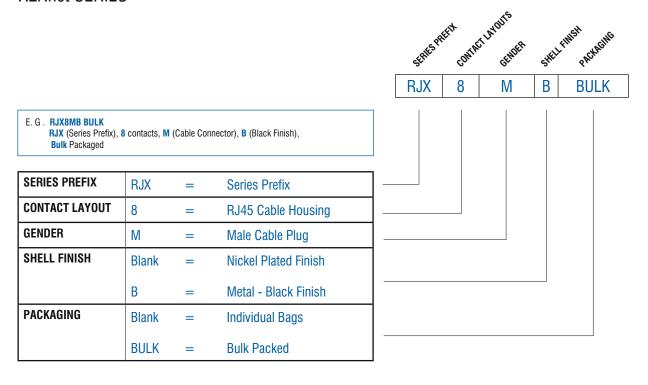
### **ISO VIEW OF RJX8M**





### PART NUMBER BREAKDOWN

**XLRnet SERIES** 



### **STANDARD DATA XLRnet SERIES**

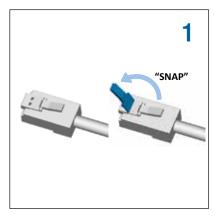
		VALUE
GENERAL	Termination	Preassembled RJ45 Cable (Not supplied)
CHARACTERISTICS	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU
CLIMATIC	Protection Class	IP40
CHARACTERISTICS	Operating Temperature	-25°C to +75°C (-13°F to -167°F)
MECHANICAL	Insertion and Withdrawal force	≥10N - ≤20N
CHARACTERISTICS	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>lt;sup>2)</sup> Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.



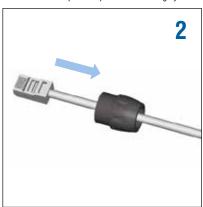
#### **ASSEMBLY INSTRUCTIONS**

### XLRnet SERIES CABLE ASSEMBLY INSTRUCTIONS



Snap or cut off release tab of the RJ45 plug.

Failure to remove the RJ45's Release Tab will make the XLRnet assembly permanently latching. The XLRnet series has an independent panel side latching system.



Slide the nut (backshell) onto the cable.



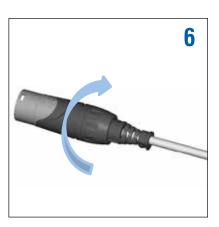
Install the cable clamp-boot.



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



Push clamp-boot & cable together into the shell



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

## ENTERTAINMENT@AMPHENOL TRUSTED GLOBALLY



#### Features:

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

Part Number Breakdown: Page 77

Specifications: Page 81 PCB Footprints: Page 80

**Recommended Fastener: Page 136** 

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	TYPE		D* /RHS	PART NUMBER
	19.80 2.7 2.7 (FUSH)		XLRnet chassis, A type, Horizontal PCB	Class D	-	-	RJX8FA3HB
	98 61			CAT5E			RJX8FA5HB
10	THIIIIIP E			CAT6			RJX8FA6HB
		XLRnet chassis B type, Horizontal PCB	Class D	-	-	RJX8FB3HB	
	125			CAT5E			RJX8FB5HB
				CAT6			RJX8FB6HB
	[=-19.80-=] 2.7 -= [=-19.7 -= 19.7 -= 24.9 -= 1	XLRnet chassis, B type, LEDs, Horizontal PCB, Bulk packed	CAT5E	R	G	RJX8FB5HRGB	
				R	Υ	RJX8FB5HRYB	
				R	R	RJX8FB5HRRB	
En ob				G	R	RJX8FB5HGRB	
SUSH PLUSH	(Push)		U U RJX8FB:	RJX8FB5HGYB			
					U	U	RJX8FB5HUUB
				CAT6	R	G	RJX8FB6HRGB
					R	Υ	RJX8FB6HRYB
		Ť			R	R	RJX8FB6HRRB
					G	R	RJX8FB6HGRB
					G	Υ	RJX8FB6HGYB
				-	U	U	RJX8FB6HUUB
	19.80 2.7 2.7 (PUBH)	25.4	XLRnet chassis, B type, Shielded Hood, Horizontal PCB,	Class D	-	-	RJX8FB3HEB
		Bulk packed	CAT5E			RJX8FB5HEB	
				CAT6			RJX8FB6HEB

\*Note: LED colours are denoted left to right from the panel side front view. Refer page 80 R = Red, G = Green, Y = Yellow, U = Blue



PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	TYPE	LHS	D* /RHS	PART NUMBER
		XLRnet chassis,	CAT5E	R	G	RJX8FB5HRGEB	
		B type, Shielded Hood,		R	Υ	RJX8FB5HRYEB	
			LEDs, Horizontal PCB, Bulk packed		R	R	RJX8FB5HRREB
	19.8 - 2.7 - 20.1 - 20.1		, in the second		G	R	RJX8FB5HGREB
6	(Fush)	23			G	Υ	RJX8FB5HGYEB
					U	U	RJX8FB5HUUEB
		288		CAT6	R	G	RJX8FB6HRGEB
					R	Υ	RJX8FB6HRYEB
100		. 3 0 0000000 pu			R	R	RJX8FB6HRREB
					G	R	RJX8FB6HGREB
					G	Υ	RJX8FB6HGYEB
					U	U	RJX8FB6HUUEB
-	19.80 2.7 18.3		XLRnet chassis, A type, Vertical PCB	Class D	-	-	RJX8FA3VB
170	O PUSH O			CAT5E	-		RJX8FA5VB
100				CAT6	-		RJX8FA6VB
***	19 80 27 18 3 24.9 24.9 24.9 25.8 25.8 25.8 25.8 25.8 25.8 25.8 25.8	XLRnet chassis, B Type, Vertical PCB	Class D	-	-	RJX8FB3VB	
			CAT5E			RJX8FB5VB	
			CAT6			RJX8FB6VB	
			XLRnet chassis, B type, LEDs, Vertical PCB, Bulk packed	CAT5E	R	G	RJX8FB5VRGB
					R	Υ	RJX8FB5VRYB
					R	R	RJX8FB5VRRB
-	19.80 2.7 18.3	24.9			G	R	RJX8FB5VGRB
140 (150)	14.00-				G	Υ	RJX8FB5VGYB
					U	U	RJX8FB5VUUB
- (SEE)	Amptenot 3			CAT6	R	G	RJX8FB6VRGB
					R	Υ	RJX8FB6VRYB
					R	R	RJX8FB6VRRB
					G	R	RJX8FB6VGRB
					G	Υ	RJX8FB6VGYB
					U	U	RJX8FB6VUUB
	19.80 2.7-	3.3 25.4	XLRnet chassis, B type,	Class D	-	-	RJX8FB3VEB
	Augurus 88	Shielded Hood, Vertical PCB, Bulk packed	CAT5E			RJX8FB5VEB	
8.6				CAT6	1		RJX8FB6VEB

\*Note: LED colours are denoted left to right from the panel side front view. Refer page 80 R = Red, G = Green, Y = Yellow, U = Blue



PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	ТҮРЕ		D* /RHS	PART NUMBER
			XLRnet chassis,	CAT5E	R	G	RJX8FB5VRGEB
			B type, Shielded Hood,		R	Υ	RJX8FB5VRYEB
	19 80 27- 18 3 3 4- 25 4-		LEDs, Vertical PCB, Bulk packed		R	R	RJX8FB5VRREB
		18.3——3.4 <sub>—</sub> ———————————————————————————————————			G	R	RJX8FB5VGREB
				G	Υ	RJX8FB5VGYEB	
	(PUSH)				U	U	RJX8FB5VUUEB
			CAT6	R	G	RJX8FB6VRGEB	
					R	Υ	RJX8FB6VRYEB
					R	R	RJX8FB6VRREB
				G	R	RJX8FB6VGREB	
					G	Υ	RJX8FB6VGYEB
					U	U	RJX8FB6VUUEB

\*Note: LED colours are denoted left to right from the panel side front view. Refer page 80 R = Red, G = Green, Y = Yellow, U = Blue



### PART NUMBER BREAKDOWN

### XLRnet A AND B TYPE Printed Circuit Board Connectors

THE THE SUNTERS LICENSE METALISM CONTACT LA VOLTS EMI RE HOOD LED COLDURS E. G. RJX8FB5HLRREB **RJX** 8 F В 5 Н RR Ε В RJX (Series Prefix), 8 (Contacts), Female B type, 5 Cat5E Horizontal, Latchless, Red - Red LEDs, EMI / RFI Hood, Bulk Packaged. RJX Series Prefix **SERIES PREFIX** = RJ45 type **CONTACT LAYOUT** 8 Receptacle housing **GENDER** A Type **SHELL SERIES** В B Type = 3 Class D = **TRANSMISSION** 5 CAT 5e **CLASS** 6 CAT 6 = Н Horizontal Printed Circuit Board = **TERMINATION** ٧ Vertical Printed Circuit Board Blank LOCKING Push lever supplied separately for = **MECHANISM** customer installation (Contact factory for detailed fitting instructions) No LEDs Blank **LED COLOUR** RG Red / Green **SEQUENCE\*** Red / Yellow RY = RR Red / Red GR Green / Red = GY Green / Yellow GG Green / Green Yellow / Red YR \_ YY Yellow / Yellow Yellow / Green YG = UU = Blue / Blue EMI / RFI No shield hood Blank = **SHIELDING HOOD** Ε = EMI / RFI shield hood Blank Individual = **PACKAGING** Bulk packed

<sup>\*</sup>Note: LED colours are denoted left to right from the panel side front view. Refer Page 80



#### **D TYPE FLANGE**



#### 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 79

Specifications: Page 81 PCB Footprints: Page 80

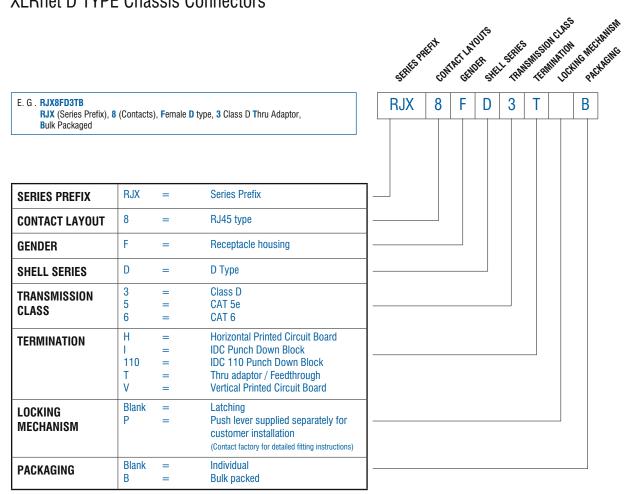
**Recommended Fastener: Page 136** 

PRODUCT - FIGURE	DRAWING	Dimensions in r	nm (inches)	DESCRIPTION	TYPE	PART NUMBER
	26.0 19.00 Pusses	20.1————————————————————————————————————	STOOL	XLRnet chassis, D type, Feedthrough, Nickel Finish	CAT5E	RJX8FD5T
	26 0 25 19 00 25 19 00 25 19 00 10 10 10 10 10 10 10 10 10 10 10 10	19 8 16 0		XLRnet chassis, D type, IDC Terminals, 110 type, Nickel Finish	CAT5E	RJX8FD5110
	Ampherol			VI Duct chassis	CAT5E	RJX8FD5I
	26 0 25 - 19 8 - 19 00 PURBH	19 8 10 10 1	200	XLRnet chassis, D type, IDC Terminals, Nickel Finish		
	o constant				CAT6	RJX8FD6I
160	19 00 PUSM	25	26.0	XLRnet chassis, D type, Horizontal PCB, Nickel Finish	Class D	RJX8FD3HB
	8 7			FINISN	CAT5E	RJX8FD5HB
	Amphanol				CAT6	RJX8FD6HB
16	19.00 PUSH	2.5 - 18.5 - 3.3	26.0	XLRnet chassis, D type, Vertical PCB, Nickel Finish	Class D	RJX8FD3VB
	00072			FIIIISII	CAT5E	RJX8FD5VB
	Amphenol				CAT6	RJX8FD6VB



### PART NUMBER BREAKDOWN

### XLRnet D TYPE Chassis Connectors



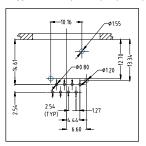
<sup>\*</sup>Note: LED colours are denoted left to right from the panel side front view. Refer Page 80



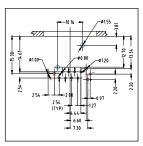
#### A, B AND D TYPE FLANGE

## **XLRNET A, B AND D TYPE SERIES**

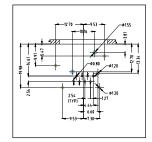
\* Applicable to 3 (Class D), 5 (CAT5E) and 6 (CAT6), where available



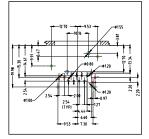
RJX8FA\*H RJX8FA\*HB



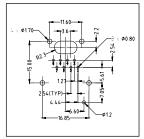
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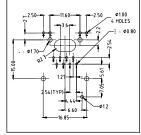
RJX8FB\*HEB



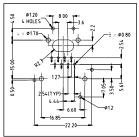
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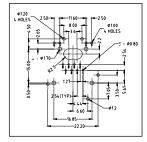
RJX8FA\*VB RJX8FB\*VB



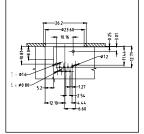
RJX8FB\*VRGB RJX8FB\*VRYB RJX8FB\*VRRB RJX8FB\*VGRB RJX8FB\*VGYB RJX8FB\*VUUB



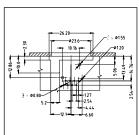
RJX8FB\*VEB



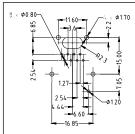
RJX8FB\*VRGEB RJX8FB\*VRYEB RJX8FB\*VGREB RJX8FB\*VGYEB RJX8FB\*VUUEB



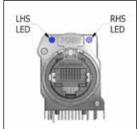
RJX8FD\*HB (Front Mounting)



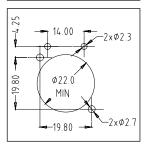
RJX8FD\*HB (Rear Mounting)



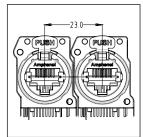
RJX8FD\*VB



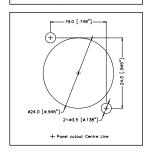
LED Arrangement (Front view)



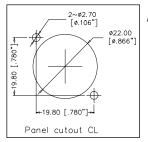
PANEL CUTOUT A and B type with LED's



XLRnet MOUNTING PITCH / A and B Type



D Type



A and B Type



### STANDARD DATA XLRnet CHASSIS RECEPTACLES

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

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





# FIBRE OPTIC CONNECTOR HOUSINGS

#### **Features:**

- Environmental IP67 / 68 rated fibre optic connectors
- · Metal housings
- · LC type
- Thru adaptors
- Cost effective thermoplastic housings
- Protective caps
- 2 or 4 channel Singlemode or Multimode connectors available on special order. Please contact us for larger fibre channels count up to 31ch
- \*Note: Fibre optic connectors and/or cables are not supplied and would need to be purchased separately. For detailed assembly instructions please refer to our website.

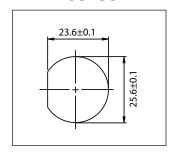
PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	92	LC FIELD, 2 Channel, Plug with metal backshell, Nickel finish*	PG clamp to suit: Flat duplex cable + Duplex zipcord for 1.6mm - 2mm - 2.8mm	LCFTV6MTNN
	PAHEL THICKNESS 1,57 MIN 3,18 MAX 33,86 A022  22,30  22,31 MAX  49,50max  49	LC FIELD, 2 Channel, Receptacle, Nickel finish*	Square Flange	LCFTV20NN
	1,25 (inches)	Protective Cap, metallic chain	For LCFTV6MTNN	BFTVF19
	20,24 MAX		For LCFTV20NN	BECTVF19
Ny.		Tools	For Mounting	LCFTVMO
			For Dismounting	LCFTVDM

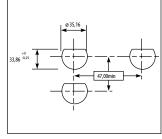


### **FIBRE OPTIC CONNECTOR HOUSINGS**

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	66.0(REF)	LC, 2 Channel, Plug housing, IP67, Thermoplastic*	PG clamp to suit: Flat duplex cable + Duplex zipcord for 1.6mm - 2mm - 2.8mm	FB-00BLMA-TL7001
		LC, 2 Channel, Receptacle, IP67, Thermoplastic*	Jam nut	FB-00RLFJ-TC7001
		Protective Cap	For receptacle	CAP-WFBFTMA1

### **PANEL CUTOUT**





FB-00RLFJ-TC7001

LCFTV20NN

### **ASSEMBLY INSTRUCTIONS\***









### BNC 75 RF CONNECTORS

Amphenol offers a complete range of highperformance BNC plugs for use in digital/ HD video applications. Amphenol's True 75 Ohm BNC connectors perform well up to and beyond 3GHz and are designed to terminate to a variety of popular coaxial cable types. We can also offer custom connectors to suit non-standard cables on request. Plugs feature a precision machined brass body and coupling nut plated with cost effective nickel plating.

### **Applications**

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

### **Options**

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

#### **Ordering Codes**

We have listed the more common ordering codes in each section.

Amphenol offer an extensive range of RF connectors for most applications.

Please visit www.amphenolconnex.com for further information. Please contact us if you need any further assistance.

## Simple steps to guide you in using this catalogue

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



### BNC 75 $\Omega$ RF CONNECTORS



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

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

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	CABLE TYPE RG-/U	INSULATION	CRIMP TOOL	PART NUMBER
	Straight Crimp Plug - Captive Contact- Standard Cable	59/ 62/ 140/ 210	Delrin	Α	112119
	ard Cabic		Teflon	Е	112952*
		59/ U-20AWG	Delrin	Α	112507
			Teflon	Е	112956*
	914.5 [0.571]]	11/ U-14AWG/ B8213/ B9292/ B7731/ B1859A	Teflon	D	112606
		6/ 143/ 212	Delrin	Е	112508
	24.5 [.965"]	B1694A/ B9248	Delrin	Е	112565
	3.7 [.146"]		Teflon	Е	112957*
		6 PLENUM/ B1695A	Delrin	Е	112519
	RECOMMENDED CABLE STRIPPING DIMS.	B8281/ B9231/ B9141	Delrin	Е	112509
			Teflon	Е	112953*
		B1505A	Teflon	Е	112951*
	Assembly Instruction A - page 89	B735A1	Teflon	F	112950*
	Straight Crimp Plug-Captive Contact-Miniature Cable (Remark: With Teflon sleeve / Hex crimp size .178")	179/ 187/ B9221	Delrin	В	112133
	22.6 [.890"] — 14.0 [.551"] — 30.2 [1.189"] — (ATER ASSEMBLY)				
	5.2 [.205"]	180/ 195/ 122/ B8218/ B1865A/ B1855	Delrin	В	112521
	RECOMMENDED CABLE STRIPPING DIMS.  Assembly Instruction B - page 89		Teflon	F	112955*

Note: \*True 75 ohm.



PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION & CABLE TYPE RG-/U	INSULATION	CRIMP TOOL	PART NUMBER
		Bulkhead Adapter -Isolated	Teflon	N/A	AC-BNC-JJA-75T*
	INSERT WASHER NUT	Jack to Jack - Straight Bayonet Lock to Bayonet Lock			
		Bulkhead Adapter -Isolated	Teflon	N/A	AC-BNC-PJA-75T*
	INSERT WASHER NUT	Jack to Jack - Straight Push on to Bayonet Lock			
26	1311 (11823-17) 1-24 (5945-17) 1-26	Bulkhead Adapter -Isolated, 'D' Shell Housing Jack to Jack,Bayonet Lock to Bayonet Lock, Nickel Finish	Teflon	N/A	AC-BNC-JJ-75*
	19 (748') -26 (1024')	Bulkhead Adapter -Isolated, 'D' Shell Housing Jack to Jack,Bayonet Lock to Bayonet Lock, Black Finish	Teflon	N/A	AC-BNC-JJ-75B*
08/6	3 L18°1 	Bulkhead Adapter -Isolated, 'D' Shell Housing Jack to Jack, Push on to Bayonet Lock, Nickel Finish	Teflon	N/A	AC-BNC-PJ-75*
		Bulkhead Adapter -Isolated, 'D' Shell Housing Jack to Jack, Push on to Bayonet Lock, Black Finish	Teflon	N/A	AC-BNC-PJ-75B*
	2 1 11 11 11 11 12 12 13 14 14 14 14 14 14 14 14 14 14 14 14 14	Bulkhead Receptacle -Iso- lated, 'D' Shell Housing Jack to Solder Bucket with Ground Tag, Nickel Finish	Nylon	N/A	AC-BNC-JS-75
	19 [748]) -26 [1024]	Bulkhead Receptacle -Iso- lated, 'D' Shell Housing Jack to Solder Bucket with Ground Tag, Black Finish	Nylon	N/A	AC-BNC-JS-75B
TO TO		U - Link Centre to Centre - 20.6 mm	Teflon	N/A	BNC-U-LINK 75*1
	53.0 [1299]	<b>Note:</b> Custom Sizes available please contact factory.			

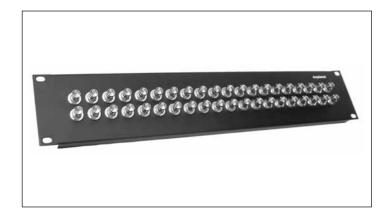
### **BNC 75 RF ACCESSORIES AND TOOLING**

PRODUCT - FIGURE	DESCRIPTION	DIE CAVITIES	CABLE TYPE RG-/U	CONNECTOR GUIDE	PART NUMBER
	Crimp tool with Die Set	.255 / .213 / .068	59 / 62	Α	47-10070
		.178 / .128 / .068	179 / 187 / 180 / 195	В	47-10150
		.429 / .100 / .080	11	D	47-10090
_ /\		.324/.255/ .068/.042	6 / 59 / B8281	Е	47-10110
11 4		.213/.178 /.068/.042	AT&T 735A, B1855A, B8218	F	47-10120

Note: \*True 75 ohm.



### **BNC PATCH PANELS**



#### Features:

- Amphenol True 75 Ohm Connectors
- Bayonet lock or Push-on types
- Supplied with adhesive strip ID labels

#### **Options:**

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

PRODUCT - FIGURE DRAWING Dimensions in mm (inches) DESCRIPT	ION MATERIAL / FINISH	LOADED WITH (refer to page 84 for specifications)	PART NUMBER
1RU 1X20 Pat Supplied with		Empty Panel	AC-BNC20M
• 66666666666666666	Steel / Black	AC-BNC-JJA-75	AC-BNC20MJ75
•	Steel / Black	AC-BNC-PJA-75	AC-BNC20MP75
	Aluminium / Clear	Empty Panel	AC-BNC20A
482 [18.976"]————————————————————————————————————	13.70 - [.539"] Aluminium / Clear	AC-BNC-JJA-75	AC-BNC20AJ75
000000000000000000000000000000000000000	TYP	AC-BNC-PJA-75	AC-BNC20AP75
20.50 [.807"] TYP - 1 2.22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	[1.283"] Aluminium / Black	Empty Panel	AC-BNC20B
	Aluminium / Black	AC-BNC-JJA-75	AC-BNC20BJ75
	Aluminium / Black	AC-BNC-PJA-75	AC-BNC20BP75
2RU 2X20 Pa Supplied with		Empty Panel	AC-BNC40M
ID labels	Steel / Black	AC-BNC-JJA-75	AC-BNC40MJ75
	Steel / Black	AC-BNC-PJA-75	AC-BNC40MP75
	Aluminium / Clear	Empty Panel	AC-BNC40A
	Aluminium / Clear	AC-BNC-JJA-75	AC-BNC40AJ75
464.5 [18.287"] TYP	13.70 - [.539"] Aluminium / Clear	AC-BNC-PJA-75	AC-BNC40AP75
7.7.7.7.3.4.6.5.7.3.4.5.4.5.7.3.4.5.4.5.7.3.4.5.4.5.7.3.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4.5.4	Aluminium / Black	Empty Panel	AC-BNC40B
20.50 [.807"] TYP	32.6 [1.283"] Aluminium / Black	AC-BNC-JJA-75	AC-BNC40BJ75
	Aluminium / Black	AC-BNC-PJA-75	AC-BNC40BP75
Panel ID labe	Plastic	Not Applicable	AC-BNC-LABEL

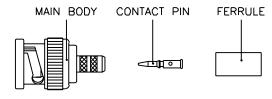


### **BNC 75 RF ASSEMBLY INSTRUCTIONS**

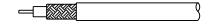
### **ASSEMBLY A**

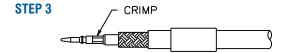
### **ASSEMBLY B**

#### STEP 1

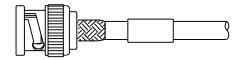


#### STEP 2

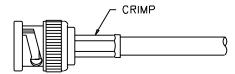




#### STEP 4

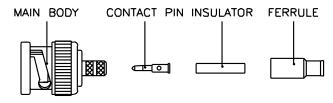


#### STEP 5

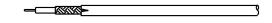


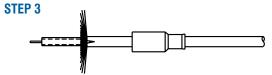
- STEP 1. All parts of the connector are shown. A crimp tool is necessary to complete the connection.
- STEP 2. Strip the cable inner conductor, dielectric, braid, and jacket as per "RECOMMENDED CABLE STRIPPING DIM'S" in catalogue.
- STEP 3. Insert inner conductor into the CONTACT PIN, crimp it with the crimp tool as shown. Then slide the FERRULE onto cable.
- STEP 4. Insert the MAIN BODY into braid and dielectric.
- STEP 5. Slide the FERRULE over braid, crimp it with the crimp tool as shown.

#### STEP 1

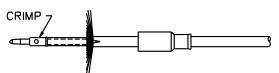


#### STEP 2

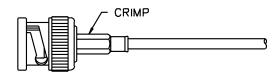




#### STEP 4



#### STEP 5



- STEP 1. All parts of the connector are shown. A crimp tool is necessary to complete the connection.
- STEP 2. Strip the inner conductor, dielectric, and jacket as per "RECOMMENDED CABLE STRIPPING DIM'S" in catalogue.
- STEP 3. Slide the FERRULE on to cable, then fold back braid wire and slide the INSULATOR on to dielectric as shown.
- STEP 4. Insert inner conductor into the CONTACT PIN, crimp it with crimp tool as shown.
- STEP 5. Push cable and parts into the MAIN BODY until it stops. Then slide the FERRULE over braid wire and against the MAIN BODY, crimp it with the crimp tool as shown.



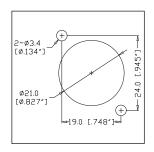
### **STANDARD DATA BNC 75 RF CONNECTORS**

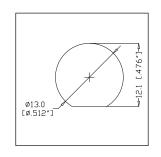
		VA	LUE		
GENERAL	Mating	Bayonet Lock			
CHARACTERISTICS	Cable Attachment	Crimp -	Crimp		
	Environmental	Complies with EU RoHS	S 2 Directive 2011/65/EU		
ELECTRICAL CHARACTERISTICS	Impedance	75	$\delta\Omega$		
CHANACIENISTICS	Frequency Range - Standard	0 - 1	GHz		
	- True 75 Ohm	0 - 4	GHz		
	Voltage Rating	500V	/ RMS		
	Dielectric withstanding voltage	1500 Vo	olts RMS		
	VSWR - Standard	1.05+0.1f(GHz) DC to 1 GHz			
	- True 75 Ohm	1.5+0.1f(GH	z) DC to 4 GHz		
	Contact Resistance				
	Centre Contact	1.5 m	illiohm		
	Outer Contact	1.0 m	illiohm		
	Insulation Resisance	5000 M	IΩ (min.)		
MATERIALS	Part	Material	Finish		
	Body, Coupling sleeves	Brass	Nickel		
	Crimp Ferrule	Annealed Copper	Nickel		
	Male Contact	Brass	Gold		
	Female Contact	Beryllium Copper or Phosphor Bronze	Gold		
	XLR Housing	Diecast Zinc Alloy	Satin Nickel or Black Polyester		
	Insulators	Teflon or Delrin	Natural		

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

### **PANEL CUTOUTS** - FRONT VIEW

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





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





# 1/4" PHONE CONNECTORS

Amphenol 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
- · Speakers
- · Mixing desks
- · Rack mount equipment
- · Patch panel

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

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

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

- Mono or Stereo (TRS)
- Compact Shell
- Straight or Right angle
- Stylish shell design
- Flexible grommet cable protection
- Nickel or Gold contact plating
- Satin Nickel or Black finish
- · Diecast shell
- 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 0.D 6mm to 7mm (0.236" to 0.275")

\*Note: Applicable to T-Series straight cable connectors only. Refer to page 98 for right angle connector Jaws cable clamp specifications.

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



M-Series, Cable 0.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

		,	STANGAT	RIGHT RIGH	SERIES	LIG SERIE	A THE SERIES		511
FEAT	URES	] {SERV	SERVE	JUNEO	SWITCH	SHICK	i M Strift	S WSER	șii cust
PRECISION MACHINED CONTACTS		Х	X	X	X	X	X	X	X
CENTER CONTACT	1 pc. Center Contact	Х	Х	X	X	Х			Х*
	2 pc Press Fit Tip/Center Contact						Х	X	Х*
BARREL:	Machined Tube	X	X	Х	X	X			
	Precision Extruded Tube						Х	X	Х
JAWS CABLE CLAMP		Х	X		X	Х			
MIN. CABLE OD	Black Jaw: 3mm/0.118"	Х	Х		X	Х			
	Purple Jaw: 6mm/0.236"	Х			Х				
	Purple Jaw: 5.5mm/0.216"		Х			Х			
MAX. CABLE OD	Black Jaw: 6mm/0.236"	Х			X				
	Black Jaw: 5.5mm/0.216"		X			X			
	Purple Jaw: 7.5mm/0.295"	Х			Х				
	Purple Jaw: 6.5mm/0.255"		χ			Х			
STANDARD CABLE CLAMP				Х			Х	Х	Х
MIN. CABLE OD	7.5mm/0.295"			Х					
MAX. CABLE OD	6mm/0.236"						Х		
	8mm/0.315"							Х	
	8.8mm/0.345"								Х
	10.5mm/0.413"			Х					
BACKSHELL FINISH	Satin Nickel	Х	Х	Х	Х	Х	Х	Х	
	Black	Х	Х	Х	Х	Х	Х	Х	
	Bright Nickel								Х
	Bright Gold								Х
CONTACT MATERIAL/	Brass/Nickel (Ni)	Х	Х	Х	Х	Х	Х	Х	Х
FINISH OPTIONS	Brass/Gold over 2µm (Ni)	Х	Х	Х	Х	Х	Х	Х	Х

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



#### 1/4" PHONE PLUGS

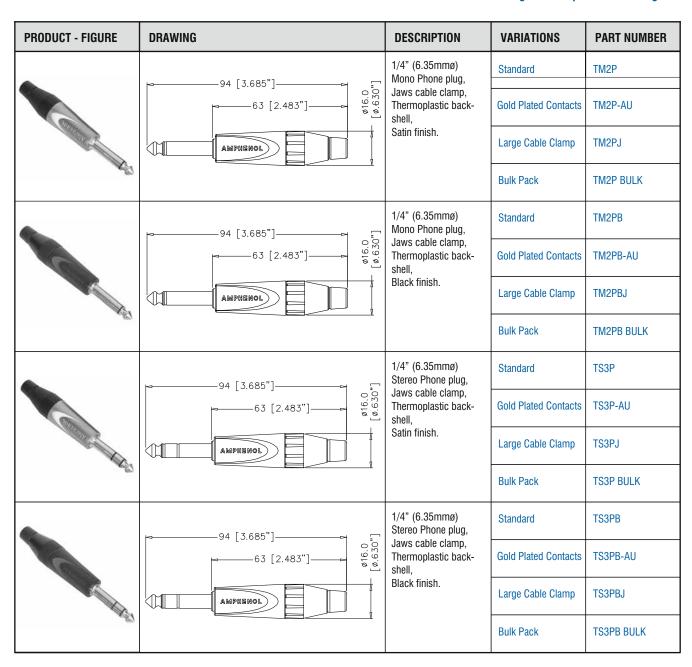
**T-SERIES** 

### ENTERTAINMENT@AMPHENOL



- · 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 (PRO RANGE)

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
•	94 [3.685"]————————————————————————————————————	1/4" (6.35mmø) Mono Phone plug,	Standard	TM2PN
Contract of the second	94 [3.685"] O O O O O O O O O O O O O O O O O O O	Jaws cable clamp,	Gold Plated Contacts	TM2PN-AU
		Metal backshell, Satin finish.	Large Cable Clamp	TM2PNJ
	AMPHENOL		Bulk Pack	TM2PN BULK
•	94 [3.685"]	1/4" (6.35mmø)	Standard	TM2PBM
	94 [3.685"] O O O O O O O O O O O O O O O O O O O	Mono Phone plug, Jaws cable clamp,	Gold Plated Contacts	TM2PBM-AU
		Metal backshell, Black finish.	Large Cable Clamp	TM2PBMJ
	AMPHENOL		Bulk Pack	TM2PBM BULK
•	94 [3.685"]————	1/4" (6.35mmø)	Standard	TS3PN
	94 [3.685"] 0.96 0.96 63 [2.483"] 5.96	Stereo Phone plug, Jaws cable clamp,	Gold Plated Contacts	TS3PN-AU
		Metal backshell, Satin finish.	Large Cable Clamp	TS3PNJ
The state of the s	AMPHENOL		Bulk Pack	TS3PN BULK
•	94 [3.685"]————————————————————————————————————	1/4" (6.35mmø)	Standard	TS3PBM
	94 [3.685"] 0.99 63 [2.483"] 59 6 6	Stereo Phone plug, Jaws cable clamp, Metal backshell, Black finish.	Gold Plated Contacts	TS3PBM-AU
	AMPHENOL		Large Cable Clamp	TS3PBMJ
The state of the s	AMPHENOL		Bulk Pack	TS3PBM BULK
	615 [2 42]	1/4" (6.35mmø)	Standard	TM2RJ
		Mono Phone plug, Right angle, Jaws cable clamp*, Thermoplastic back- shell.	Gold Plated Contacts	TM2RJ-AU
73	127   8   33		Small Cable Clamp	TM2R
		Satin finish.	Bulk Pack	TM2RJ BULK
	615  2 42	1/4" (6.35mmø)	Standard	TM2RBJ
		Mono Phone plug, Right angle,	Gold Plated Contacts	TM2RBJ-AU
1	13.21 8.6.5.	Jaws cable clamp*, Thermoplastic back-	Small Cable Clamp	TM2RB
		shell, Black finish.	Bulk Pack	TM2RBJ BULK
•	615  2 42	1/4" (6.35mmø)	Standard	TS3RJ
		Stereo Phone plug, Right angle,	Gold Plated Contacts	TS3RJ-AU
	8   30	Jaws cable clamp*, Thermoplastic back-	Small Cable Clamp	TS3R
200	105   120	shell, Satin finish.	Bulk Pack	TS3RJ BULK
	615  2 42	1/4" (6.35mmø)	Standard	TS3RBJ
		Stereo Phone plug, Right angle, Jaws cable clamp*, Thermoplastic back-	Gold Plated Contacts	TS3RBJ-AU
1/2	90 5 11 201		Small Cable Clamp	TS3RB
		shell, Black finish.	Bulk Pack	TS3RBJ BULK

<sup>\*</sup>NOTE: Refer to page 98 for Jaws cable clamp specifications applicable to right angle connectors.





## ENTERTAINMENT @ AMPHENOL TRUSTED GLOBALLY

#### **T-SERIES SWITCHPLUG**



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

WARNING!
For use with
instrument (guitar)
applications only.

Part Number Breakdown: Page 97 Specifications: Page 98

US Patent No.8,162,697

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	98.6   3.883"	1/4" (6.35mmø) Switch Phone plug, Jaws cable clamp, Thermoplastic backshell, Satin finish	Standard  Gold Plated Contacts	TM1P-AU
and	- 30 3  1194"		Large Cable Clamp	TM1PJ
			Bulk Pack	TM1P BULK
		1/4" (6.35mmø) Switch Phone plug, Jaws cable clamp,	Standard	TM1PB
0	98.6 [3.883"] 98.6 [3.883"] 98.6 [3.883"] 98.6 [3.883"]	Thermoplastic backshell, Black finish	Gold Plated Contacts	TM1PB-AU
5			Large Cable Clamp	TM1PBJ
			Bulk Pack	TM1PB BULK
	615  2 420°1	1/4" (6.35mmø) Switch Phone plug, Right angle, Jaws cable clamp*, Thermoplastic backshell, Satin Finish	Standard	TM1RJ*
			Gold Plated Contacts	TM1RJ-AU*
•			Bulk Pack	TM1RJ BULK*
	615   2 4 20 "   1	1/4" (6.35mmø) Switch Phone plug, Right angle,	Standard	TM1RBJ*
		Jaws cable clamp*, Thermoplastic backshell,	Gold Plated Contacts	TM1RBJ-AU*
-	- 30 3 (1.93-	Black Finish	Bulk Pack	TM1RBJ BULK*

\*NOTE: Refer to page 98 for Jaws cable clamp specifications applicable to right angle connectors.

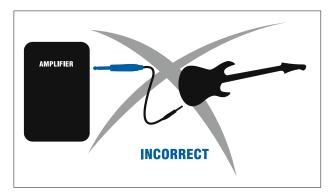


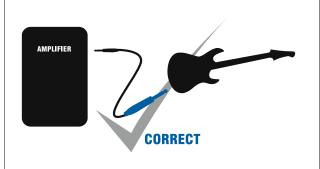


### T-SERIES (PRO RANGE)

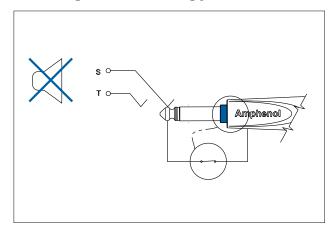
### **SwitchPlug - User Instruction**

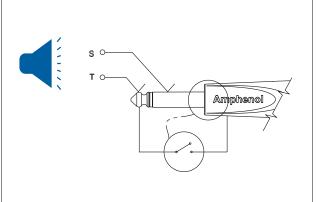






### SwitchPlug - Technology\*





\*US Patent No. 8,162,697



### **JUMBO T-SERIES (PRO RANGE)**



- 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 98**

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
•	94 [3.690"]	1/4" (6.35mmø) JUMBO Mono Phone plug,	Standard	JM2P
The same of	63 [2.489"]	Thermoplastic back- shell,	Gold Plated Contacts	JM2P-AU
AMPHENOL Satin finish.	Satin finish.	Bulk Pack	JM2P BULK	
	94 [3.690"]	1/4" (6.35mmø) JUMBO Mono	Standard	JM2PB
	63 [2.489"]	Phone plug, Thermoplastic back- shell,	Gold Plated Contacts	JM2PB-AU
	AMPHENOL 616 1 CZ2Z ]	Black finish.	Bulk Pack	JM2PB BULK
	94 [3.690"]	1/4" (6.35mmø) JUMBO Stereo	Standard	JS3P
		Phone plug, Thermoplastic back- shell,	Gold Plated Contacts	JS3P-AU
The second	AMPHENOL 616 617 157 157 157 157 157 157 157 157 157 1	Satin finish.	Bulk Pack	JS3P BULK
	ра——94 [3.690"]——ы	1/4" (6.35mmø) JUMBO Stereo	Standard	JS3PB
	63 [2.489"]	Phone plug, Thermoplastic back- shell,	Gold Plated Contacts	JS3PB-AU
	AMPHENOL 618	Black finish.	Bulk Pack	JS3P BULK

NOTE: Contact factory for availability of metal backshells.



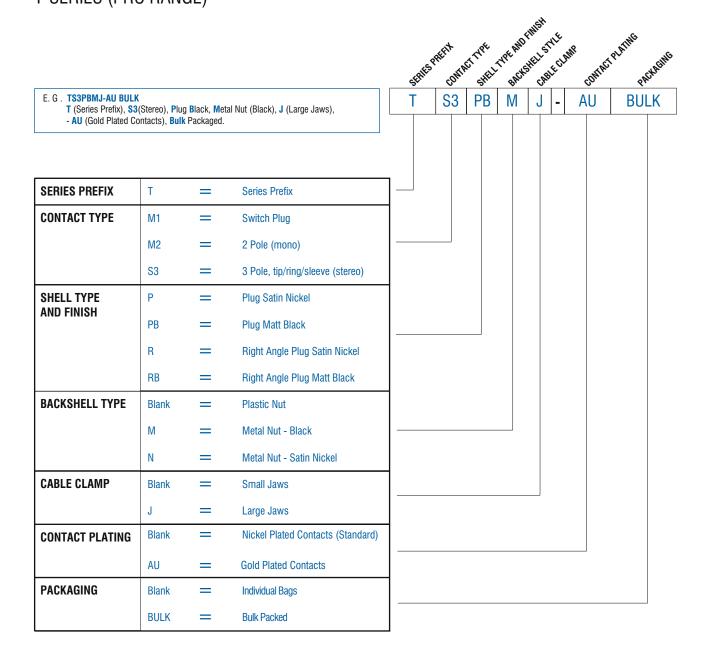


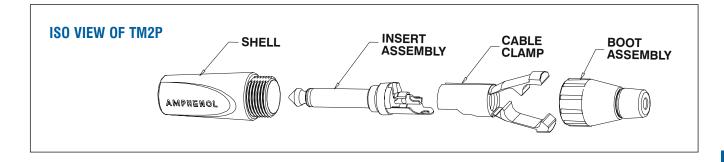


#### STANDARD DATA

### PART NUMBER BREAKDOWN

T-SERIES (PRO RANGE)









STANDARD DATA

## 1/4" PHONE PLUG TECHNICAL DATA

			VALUE			
		Straight	Right Angle	Jumbo		
GENERAL	Number of Contacts	3 Pole Tip Ring Sleeve (Stereo)				
CHARACTERISTICS	Termination		Solder			
	Max. Wire Gauge - Stranded Wire		2 Pole (Mono): AWG 16~1.5mm <sup>2</sup>	2		
			3 Pole (Stereo): AWG 18~1mm <sup>2</sup>			
	Flammability rating of insulating plastics		UL94V-0			
	Solderability, complies with		IEC 68-2-20			
	Environmental	Complie	es with EU RoHS 2 Directive 2011	/65/EU		
ELECTRICAL	Current Carrying Capacity	1	10A (Depends on Mating Connector and Cat	ole)		
CHARACTERISTICS	Typical Contact Resistance		Depends on Mating Connector			
	Insulation resistance (initial)		>2GΩ			
	After Damp Heat Test		≥1GΩ			
	Dielectric Withstand Voltage		2 Pole : 1.5 kV dc			
		3 Pole : 1 kV dc				
CLIMATIC	Protection Class	IP40				
CHARACTERISTICS	Operating Temperature	-25°C to +75°C (-13°F to + 167°F)				
MECHANICAL	Insertion and Withdrawal Force					
CHARACTERISTICS	Weight <sup>1</sup> Thermoplastic Backshell Weight <sup>1</sup> Metal Backshell		28g (0.061lb) 35g (0.077lb)			
	Typical Cable Retenton Force	22kg to 44kg (50lb t	to 100lb) - Dependent on cable m	aterial and diameter.		
	Cable O.D Standard Jaw	3mm to 6mm (0.118" to 0.236")	3mm to 5.5mm (0.118" to 0.216")	NA		
	Cable O.D Large Jaw	6mm to 7mm (0.236" to 0.275")	5.5mm to 6.5mm (0.216" to 0.255")	NA		
	Cable O.D Jumbo	NA	NA	7.5mm to 10.5mm (0.295" to 0.413")		
	Mechanical Operations		1000	,		
MATERIALS	Connector Shell Material		Diecast Zinc Alloy EZDA No.3			
	Shell Finish	Satin Nickel or Black Polyester				
	Insulators	UL94 V-0 I	PBT Resin or Modified PPE Resin	- Black		
	Boot / Backshell	UL94 V-0 PBT Resin or Modified PPE Resin - Black or Metal CuZn <sup>39</sup> Pb <sup>3</sup>				
	Cable Clamp	U	L94 V-0 PBT Modified PPO Resin	- Black		
	Cable Bushing		Santoprene			
	Contacts / Plating		Brass/Ni or Au over 2 $\mu$ m Ni			

n Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.



#### **MUSICIAN SERIES II**



### Features:

- Mono or Stereo (TRS).

- AX Series inspired shell design.
   Large cable 0.D. Entry to 8mm (0.315")
   Robust diecast shell in Satin nickel or Black finish.
- · Nickel or Gold contact plating.
- Flexible grommet cable protection.Improved solderability.
- · Precision machined contacts.
- · Standard or Bulk packaging.

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

### Clamp Info:



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

### **Specifications: Page 112**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
1	<b>*</b>	—79 [3.115"]———————————————————————————————————	1/4" (6.35mmø) Mono Phone plug, Diecast Shell, Satin finish,	Standard	ACPM-KN
			Flexible grommet.	Gold Plated Contacts	ACPM-KN-AU
-		Amphenol		Bulk Pack	ACPM-KN-BULK
	5	79 [3.115"] 8 7 6 6 6 6	1/4" (6.35mmø) Mono Phone plug, Diecast Shell,	Standard	ACPM-KB
		Black finish, Flexible grommet.	Gold Plated Contacts	ACPM-KB-AU	
			Bulk Pack	ACPM-KB BULK	
	4	79 [3.115"]———————————————————————————————————	1/4" (6.35mmø) Stereo Phone plug, Diecast Shell,	Standard	ACPS-KN
	Amphenol	Satin finish, Flexible grommet.	Gold Plated Contacts	ACPS-KN-AU	
	J 41			Bulk Pack	ACPS-KN BULK
	1	79 [3.115"]	1/4" (6.35mmø) Stereo Phone plug, Diecast Shell, Black finish, Flexible grommet.	Standard	ACPS-KB
		Amphenol		Gold Plated Contacts	ACPS-KB-AU
	<u> </u>			Bulk Pack	ACPS-KB BULK



### M SERIES II (MUSICIAN RANGE)

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	An	61 [2.402"]	1/4" (6.35mmø) Mono Phone plug, Right angle, Diecast	Standard	ACPM-TN
	1	5.0 [.197"]————————————————————————————————————	Shell, Satin finish, Flexible grommet.	Gold Contacts	ACPM-TN-AU
The state of the s		0.6.		Bulk Pack	ACPM-TN BULK
	An	61 [2.402"]————————————————————————————————————	1/4" (6.35mmø) Mono Phone plug, Right angle, Diecast Shell, Black finish, Flexible grommet.	Standard	АСРМ-ТВ
	Shell, Black finish, Flexible grommet.	30.6 [1.205"] MAX. 5.0 [.197"] 49.3 [1.941"]		Gold Contacts	ACPM-TB-AU
The state of the s				Bulk Pack	ACPM-TB BULK
	61 [2.402"]	1/4" (6.35mmø) Stereo Phone plug, Right angle, Diecast	Standard	ACPS-TN	
		49.3 [1.941"]—	Shell, Satin finish, Flexible grommet.	Gold Contacts	ACPS-TN-AU
N. C.		5.0 [.197*		Bulk Pack	ACPS-TN BULK
	61 [2.402*]  Amphaeod  1, 16, 1, 16, 1, 16, 1, 16, 1, 16, 1, 16, 1, 16, 16	1/4" (6.35mmø) Stereo Phone plug, Right angle, Diecast	Standard	ACPS-TB	
		Shell, Black finish, Flexible grommet.	Gold Contacts	ACPS-TB-AU	
		Bulk Pack	ACPS-TB BULK		



### **M SERIES (MUSICIAN RANGE)**



### Features:

- Mono or Stereo (TRS).
- Stylish shell design.Robust diecast shell in Satin nickel or Black finish.
- Nickel or Gold contact plating.
  Flexible grommet cable protection.
- Improved solderability.Precision machined contacts.
- Standard or Bulk packaging.Cable OD Entry to 6.5mm (0.256")

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

**Specifications: Page 112** 

### 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
The state of the s	79 [3.115"]———————————————————————————————————	Mono Phone plug,	Standard	ACPM-GN	
		Amphenol	Flexible grommet.	Gold Plated Contacts	ACPM-GN-AU
V <sub>a</sub>	J 4			Bulk Pack	ACPM-GN BULK
	9	79 [3.115"]———————————————————————————————————	1/4" (6.35mmø) Mono Phone plug, Diecast Shell,	Standard	ACPM-GB
		Amphenol	Black finish, Flexible grommet.	Gold Plated Contacts	ACPM-GB-AU
	V 41			Bulk Pack	ACPM-GB BULK
	-	49 [1.922"] 69 27 28 27 29 3	1/4" (6.35mmø) Stereo Phone plug, Diecast Shell, Satin finish,	Standard	ACPS-GN
		Amphenol	Flexible grommet.	Gold Plated Contacts	ACPS-GN-AU
160	<b>V 4</b> 1 11			Bulk Pack	ACPS-GN BULK
	4	49 [1.922"] — 49 [1.922"]	1/4" (6.35mmø) Stereo Phone plug, Diecast Shell,	Standard	ACPS-GB
			Black finish, Flexible grommet.	Gold Plated Contacts	ACPS-GB-AU
All a	<b>V W</b> 1.11			Bulk Pack	ACPS-GB BULK



### **M SERIES (MUSICIAN RANGE)**

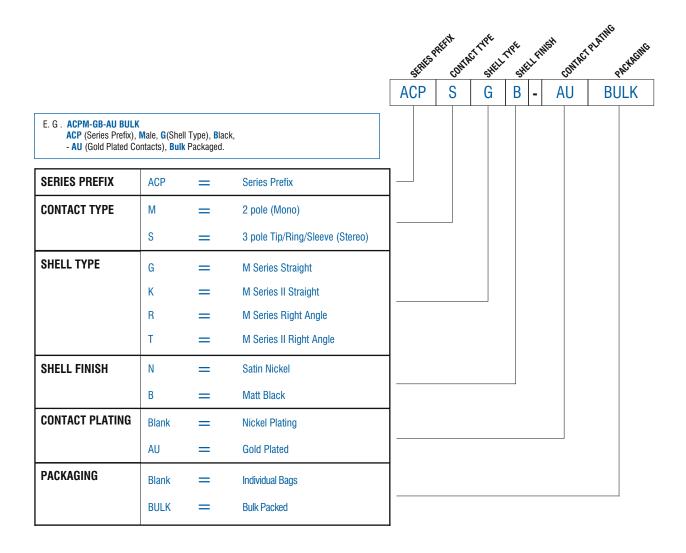
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	ТҮРЕ	PART NUMBER
	Arr	61 [2.402"]	1/4" (6.35mmø) Mono Phone plug, Right angle, Diecast Shell, Satin finish,	Standard	ACPM-RN
G.	1 20	MAX. [.197	Flexible grommet.	Gold contacts	ACPM-RN-AU
		0. r.		Bulk Pack	ACPM-RN BULK
		-61 [2.402"]	1/4" (6.35mmø) Mono Phone plug, Right angle, Diecast	Standard	ACPM-RB
	6 [1.205"] MAX. 0 [.197"] — 49.3 [1.941"]	Shell, Black finish, Flexible grommet.	Gold contacts	ACPM-RB-AU	
		5.0		Bulk Pack	ACPM-RB BULK
	61 [2.402*]  Autobassos  61 [2.402*]  62 [1.69*]  63 [1.69*]  64 [2.404*]	1/4" (6.35mmø) Stereo Phone plug, Right angle, Diecast Shell, Satin finish, Flexible grommet.	Standard	ACPS-RN	
<u>a</u>			Gold contacts	ACPS-RN-AU	
The same of the sa			Bulk Pack	ACPS-RN BULK	
	61 [2.402*]  Amphasol  [1.156]  [1.161]  [2.67]  [2.67]  [3.67]  [4.67]  [4.67]  [4.67]  [5.67]	1/4" (6.35mmø) Ste- reo Phone plug, Right angle, Diecast Shell, Black finish, Flexible grommet.	Standard	ACPS-RB	
			Gold contacts	ACPS-RB-AU	
The same of the sa	B of order		Bulk Pack	ACPS-RB BULK	



### M SERIES / M SERIES II (MUSICIAN RANGE)

### PART NUMBER BREAKDOWN

M / M SERIES II (MUSICIAN RANGE)







# 1/4" PHONE JACK CONNECTORS

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

### **Applications**

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

### Features / Options — OEM RANGE Phone Jack

- Mono or Stereo (TRS)
- Stackable (Piggy back) mounting
- Vertical or horizontal PCB mount
- · Mono and Stereo switched contacts
- · Solder contacts
- Combo Contacts
- Metal nut
- Plastic Nut
- 1/4" (6.35mm)
- 3.5mm
- Dual 1/4"(6.35mm) and 3.5mm
- EMI Shielding plates
- · Metal Mounting threads
- · Plastic Mounting threads
- Chassis Ground connections
- · Half, Full or No threads
- Grounded or Isolated Jacks

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



1/4" Gripper - Grounding points



1/4" Shielding Plate

### **Ordering Codes**

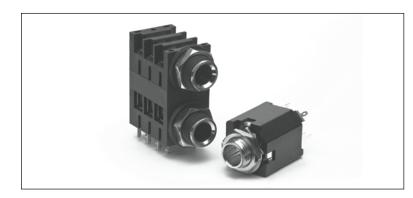
We have listed the more common ordering codes in each section. Please contact us if you need any further assistance.

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

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



### **MUSICIAN / OEM RANGE**



- 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 110** Panel Cutouts: Page 109 **PCB Footprints: Page 111 Specifications: Page 112** 

	PRODUCT - FIGURE	DRAWING	Dime	ensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
3.51	MM PHONE JACKS			(-250°)	3.5mm Jack, Horizon- tal PCB, Plastic housing, Metal entry bore	Mono	ACJM-NH35
	The state of the s		3 [.118"] — w w w w w w w w w w w w w w w w w w	6.8 [.267"]	Wictal Chay Bore	Stereo	ACJS-NH35
	200		£.		3.5mm Jack, Vertical	Refer to Schematic	ACJM-NV35-2
		=24 [.943*] == 23 [.896*]			PCB mount, Needle eye contacts, Plastic	Chart on page 110	ACJM-NV35-2S
				25° (Q)	housing, Metal entry		ACJS-NV35-3
	60	27 [1.057"	<del>'}</del>	16	bore		ACJS-NV35-3S
		l⊶ 30.4 [1,195"	']⊷ ⊸	[.620"] 🗠			ACJS-NV35-5
	300	24 [.939*] <del> </del> -	METÁL WÁSHER		3.5mm Jack, Vertical	Refer to Schematic	ACJM-MV35-2
		4 [.159*]	+	PCB mount, Needle eye contacts, Plastic	Chart on page 110	ACJM-MV35-2S	
	CE.	Amphood	13 10 [0.51*] [0,39	-1 28 - 1 2 S	housing, Metal thread and entry bore		ACJS-MV35-3
	- (60)	= 0	1 4 1		and entry bore		ACJS-MV35-3S
			' \_\M6×0.5 \nuT 2.	METAL T 5mm THICK			ACJS-MV35-5
		8.8 [.36"]————————————————————————————————————	8.8 (.346") [1650"] [1650"] [1650"]	3.5mm / 1/4" (6.35mmø) Dual Phone Jack, (Piggy- back), Horizontal PCB,	Mono	ACJM-MHD985	
	11,0		106"]	[,(22')]	Plastic housing, Metal nut and entry bore	Stereo	ACJS-MHD985
	***		35 [1.360"]——		3.5mm / 1/4"	Refer to Schematic	ACJM-MVD985-2
	1		24 [.931 ]		(6.35mmØ) Dual Phone Jack, Vertical	Chart on page 110	ACJM-MVD985-2S
	- 50			2 [1241].	PCB mount, Needle eye contacts, Plastic		ACJS-MVD985-3
	-	SIDE VIEW	24 [.947]	16	housing, Metal nut and entry bore		ACJS-MVD985-3S
			→27 [1.061*]→	[,620"]	and only boro		ACJS-MVD985-5
1/4"	PHONE JACKS HORE	9,1 3.3.5 [1.319"] [.358"]		1/4" (6.35mmø) Phone Jack, Horizontal Snap-fit PCB, Plastic	Mono	ACJM-HHDR	
		4.50 1.50 1.77 1.77 1.77 1.77 1.77 1.77 1.77 1.7			housing, Half thread, Metal entry bore. Sup- plied without mounting hardware.	Stereo	ACJS-HHDR



### MUSICIAN / OEM RANGE

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
Allo Co	9.1 -33.5 [1.319*] -4.1 -4.		1/4" (6.35mmø) Phone Jack, Horizontal Snap-fit PCB, Plastic housing, Metal nut and entry bore	Mono	ACJM-MHDR
				Stereo	ACJS-MHDR
	2. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.		1/4" (6.35mmø) Phone Jack, Horizontal Snap-fit PCB, Plastic housing, Metal thread, nut, washer and entry bore	Mono	ACJM-MHDRM
				Stereo	ACJS-MHDRM
	24.3 [.957]		1/4" (6.35mmø) Offset Jack, Horizontal PCB mount, Plastic housing	Refer to Schematic Chart on page 110	ACJM-HHOP
	[.620]	8.9 21.36 [.350"]	and entry bore with Half thread. Supplied without mounting hardware.		ACJS-HHOP
	200 15.8 15.8 15.8 16.20°]	24.3 [.957"]	1/4" (6.35mmø) Offset Jack, Horizontal PCB mount, Plastic housing and entry bore with Half thread. Supplied without mounting hardware.	Refer to Schematic Chart on page 110	ACJM-HHOP-1
					ACJS-HHOP-1
	6.4 [.253*] 15.8 [.620*] 2.350*]	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
		8.9 21.36 [.350"] 2841"]		Stereo - Plastic Nut	ACJS-PHOP
				Stereo - Metal Nut	ACJS-MHOP
	[.620*] 15.8 [.620*] 8.9 [.356	24.3 [.957*]	1/4" (6.35mmø) Offset Jack, Horizontal PCB mount, Plastic housing, thread and entry bore. Non-switching sleeve contact with separate grounding to panel.	Refer to Schematic Chart on Page 110	ACJM-PHOP-1
				PHOP - Denotes	ACJM-MHOP-1
		8.9 [.350"] 21.36 [.841"]		Plastic Nut MHOP - Denotes	ACJS-PHOP-1
				Metal Nut	ACJS-MHOP-1
	15.8 15.8 15.8 15.8 15.8 15.8 15.8 15.8 15.8 15.8	24.8 [.976"]	1/4" (6.35mmø) Offset Jack, Horizontal PCB mount, Plastic housing, Metal thread and entry bore with Chassis ground con- nection	Mono - Metal Nut	ACJM-MHOM
				Stereo - Metal Nut	ACJS-MHOM
File.	8.0 [.315*] - 24.8 [.976*] - 24.8 [.		1/4" (6.35mmø) Jack, Horizontal PCB mount, Plastic housing with metal insert	Mono - Plastic Nut	ACJM - PH
				Mono - Metal Nut	ACJM - MH



PRODUCT - FIGURE	DRAWING	Dimensions in mm	(inches)	DESCRIPTION	VARIATIONS	PART NUMBE
	8.0 [.315"]		20.0	1/4" (6.35mmø) Jack, Horizontal PCB mount, Plastic housing with metal insert	Stereo - Plastic Nut	ACJS - PH
	8727 8727 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	┵╬┸╬╌ <del>╸</del>		With metal moert	Stereo - Metal Nut	ACJS - MH
	_ <del></del>	8 [.976"] <del> </del>		1/4" (6.35mmø)	Mono - Plastic Nut	ACJM-PHR
	8.0 [.315"]	25.25 25.25 10.00	20.0	Jack, Horizontal Snap-fit PCB mount,	Mono - Metal Nut	ACJM-MHR
4110				Plastic housing with metal insert	Stereo - Plastic Nut	ACJS-PHR
	4.00 [.157*] TYP				Stereo - Metal Nut	ACJS-MHR
<b>6</b> 20.	9.0 [.315"] ——24.	8 [.976"]		1/4" (6.35mmø) Jack, Combination	Mono - Plastic Nut	ACJM-PC
Sec		25.55 HOO	20.0	Horizontal PCB and Solder lug, Plastic	Mono - Metal Nut	ACJM-MC
1100				housing with metal insert	Stereo - Plastic Nut	ACJS-PC
4	8.50 [.335] TYP			motal moort	Stereo - Metal Nut	ACJS-MC
	8.0 0.5.5 0.5.5 0.0.5.5 0.0.5.5 0.0.5.5 0.0.5.5 0.0.5.5 0.0.5.5 0.0.5.5 0.0.5.5 0.0.5.5 0.0.5.5 0.0.5.5 0.0.5.5 0.0.5.5 0.0.5.5 0.0.5.5 0.0.5.5 0.0.5.5 0.0.5.5 0.0.0.5 0.0.5 0.0.5 0.0.5 0.0.5 0.0.5 0.0.5 0.0.5 0.0.5 0.0.5 0.0.5	8 [.976"] <del></del> -		1/4" (6.35mmø) Jack, Solder Lug, Plastic	Mono - Plastic Nut	ACJM-PHS
FIG			[.602]	housing with metal insert	Mono - Metal Nut	ACJM-MHS
				moort	Stereo - Plastic Nut	ACJS-PHS
	7.50 [.295" TYP				Stereo - Metal Nut	ACJS-MHS
gam	11.00 [.433*]	32.10 [1.264*]- 		1/4" (6.35mmø) Jack, Solder Lug, Plastic housing and Bezel with threaded Metal nut.	Mono	ACJM-IHS
eco C	20.00	1 000	<u> </u>	anoddod Modai nat.	Stereo	ACJS-IHS
		[1.317"]— 5 [.335"] 1	87.]	1/4" (6.35mmø) Jack, Horizontal PCB mount, Plastic housing and Bezel with threaded	Mono	ACJM-IH
	\$\frac{1}{2}\$		23	Metal nut.	Stereo	ACJS-IH
PHONE JACKS HOR	ZONTAL DUAL	7-01-01-074		1/4" (6.35mmø) Dual Phone Jack (Compact Piggyback), Horizontal Snap-fit PCB, Plastic	Mono	ACJM-MHDC*
	450 11777 118.27 1		16.0	housing, Metal nut and entry bore	Stereo	ACJS-MHDC*
Ma	28.3 [1.127]	3.0 (1.29°)————————————————————————————————————	16.0	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		

 $<sup>\</sup>mbox{\ensuremath{^{\star}}}$  This product protected by U.S. patent No. 6,116,959



PRODUCT - FIGURE	DRAWING	Dimensions in mm (i	inches)	DESCRIPTION	VARIATIONS	PART NUMBER
Maria	+1.025.1 8.8: -1.025.1 -1.025.	- 53.5 [1.319]		1/4" (6.35mmø) Dual Phone Jack (Piggyback) Horizontal Snap-fit PCB, Plastic	Mono	ACJM-MHD*
ELE LO	4.50 1.17771 1			housing, Metal nut and entry bore	Stereo	ACJS-MHD*
Site.	3.1 (3.58°) - (1.00°) - (1	- 33.5 [1.319*]	16.0 [.630"]	1/4"(6.35mmø) Dual Phone Jack (Pig- gyback) Shielding plate,	Mono	ACJM-MHDE*
	4.50 1.477 1		18	Horizontal Snap-fit PCB, Plastic housing, Metal nut and entry bore	Stereo	ACJS-MHDE*
ALC.	9,1 [.358*]	-33.5 [1.319"]	30,1	1/4" (6.35mmø) Dual Phone Jack (Pig- gyback), Horizontal	Mono	ACJM-MHDM*
	1,290   1,290		) (1) (2) (3)	Snap-fit PCB, Plastic housing, Metal thread, nut, washer and entry bore	Stereo	ACJS-MHDM*
alle.	1/4"(6.35mmø) Dual Phone Jack (Piggyback), Shielding plate Horizontal Snap-fit PCB, Plastic housing, Metal thread, nut and entry bore	Phone Jack (Piggy- back), Shielding plate	Mono	ACJM-MHDEM*		
			# #	PCB, Plastic housing, Metal thread, nut and	Stereo	ACJS-MHDEM*
PHONE JACKS VER	TICAL			1/4" (6.35mmØ) Jack,	Refer to Schematic	ACJM-PVB-2
dia	14.5 ->  [5.71*]   -			Vertical PCB mount, Plastic housing,	Chart on page 110	ACJM-PVB-2S
	15.0 12.0 472.7	rFP	nut and entry bore		ACJS-PVB-3	
		1.20-1.50	<b>**</b>			ACJS-PVB-3S
1600	12.8	[0.047"-0.059"] -= 24.0 [.	.945"] 📥			ACJS-PVB-5
				1/4" (6.35mmø) Jack,	Refer to Schematic	ACJM-MIV-2
1	7 [.280"]	1.022 1	.5 [.020"]	Vertical PCB mount, Needle eye contacts,	Chart on page 110	ACJM-MIV-2S
- 6	25	6 [.6227] [.6227] [.5127]		Plastic thread, Metal nut and insert		ACJS-MIV-3
	3.5 [,138"]	2 [.087"		Wetai nut and insert		ACJS-MIV-3S
	-24 [.945"]=					ACJS-MIV-5
	<b> </b> −24 [.945"] <b> </b> −			1/4" (6.35mmø) Jack,	Refer to Schematic	ACJM-MN-2
0		7 [.276"]	,	Vertical PCB mount, Needle eye contacts,	Chart on page 110	ACJS-MN-3
			16.0	Star washer, Metal nut and insert		ACJM-MN-2S
. 60			<u>  </u>	and moen		ACJS-MN-3S
			'			ACJS-MN-5
			T	1/4" (6.35mmø)	Refer to Schematic	ACJM-MV-2
	7 [.276"]	,	Jack, Vertical PCB mount, Metal nut	Chart on page 110	ACJM-MV-2S	
160			16.630"]	and insert		ACJS-MV-3
. 60						ACJS-MV-3S
			'			ACJS-MV-5

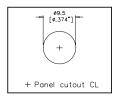
<sup>\*</sup> This product protected by U.S. patent No. 6,116,959



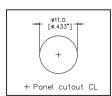
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		16 → reave   16 → 14 → 0.5 [.020*]	1/4" (6.35mmø)	Refer to Schematic	ACJM-MVS-2
35,5 [1.398"]	[.022]	Jack, Solder Lug, Metal nut	Chart on Page 110	ACJM-MVS-2S	
Me		[.622]	and insert		ACJS-MVS-3
28.5 [1.122*] + 28.5	A			ACJS-MVS-3S	
	_	-			ACJS-MVS-5

### **PANEL CUTOUTS**

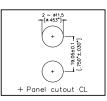
#### -FRONT VIEW



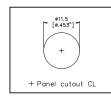
ACJM-MV ACJS-MV ACJM-MN-2 ACJS-MN-3 ACJS-MN-3 ACJS-MN-5 ACJM-MIV ACJJS-MIV ACJM-MVS ACJM-MVS ACJM-MVS



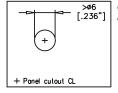
ACJM/S-PH ACJM/S-MH ACJM/S-PC ACJM/S-MC ACJM/S-PHR ACJM/S-PHS ACJM/S-MHS



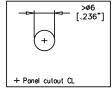
ACJM-MHD ACJS-MHD ACJM-MHDE ACJS-MHDE



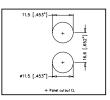
ACJM-MHDR ACJS-MHDR ACJS-HHDR



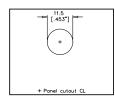
ACJM-NH35 ACJS-NH35



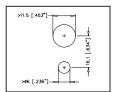
ACJM-NV35-2 ACJM-NV35-2S ACJS-NV-35-3 ACJS-NV-35-3 ACJS-NV-35-5 ACJM-MV35-2 ACJM-MV35-2S ACJS-MV-35-3 ACJS-MV-35-3 ACJS-MV-35-5



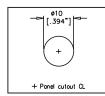
ACJS-MHDC ACJM-MHDC



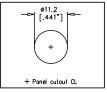
ACJS-IH ACJM-IH ACJS-IHS ACJM-IHS



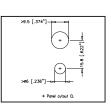
ACJS-MHD985 ACJM-MHD985



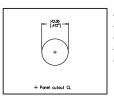
ACJS-MHOM ACJM-MHOM



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



ACJS-MVD985 ACJM-MVD985



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





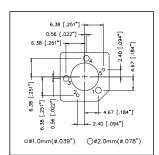
### **SCHEMATIC CHART**

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

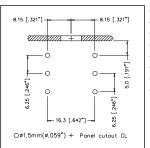


#### **PCB FOOTPRINT**

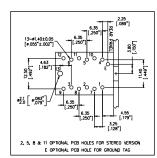
#### - CONNECTOR SIDE OF PCB



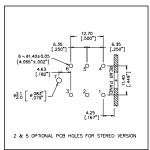
ACJM-MV ACJS-MV AC.IM-MN-2 ACJS-MN-3 ACJM-MN-2S ACJS-MN-3S ACJS-MN-5 ACJM-NV35-XX ACJM-MV35-XX ACJS-NV35-XX ACJS-MV35-XX ACJM-MIV-2 ACJM-MIV-2S ACJS-MIV-3 ACJS-MIV-3S ACJS-MIV-5



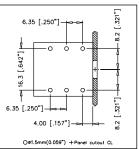
ACJM-PH ACJM-MH ACJS-PH ACJS-MH ACJM-PC ACJM-MC ACJS-PC ACJS-MC



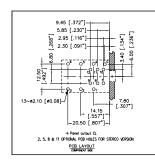
ACJM-MHD
ACJS-MHD
ACJM-MHDE
ACJS-MHDE
ACJS-MHDEM
ACJS-MHDEM
ACJS-MHDC
ACJS-MHDCM
ACJS-MHDCM
ACJS-MHDCM
ACJS-MHDCM
ACJS-MHDCM



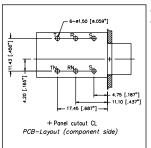
ACJM-MHDR ACJS-MHDR ACJM-PHR ACJM-MHR ACJS-PHR ACJS-MHR ACJM-HHDR ACJS-HHDR ACJS-MHDRM ACJS-MHDRM



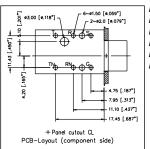
ACJS-IH ACJM-IH



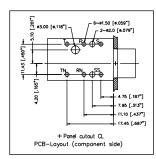
ACJS-MHD985 ACJM-MHD985



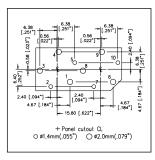
ACJS-MHOM ACJM-MHOM



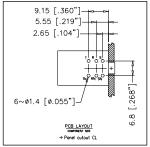
ACJS-MHOP-1 ACJS-PHOP-1 ACJS-HHOP-1 ACJM-MHOP-1 ACJM-PHOP-1 ACJM-HHOP-1



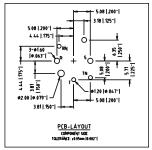
ACJS-MHOP ACJS-PHOP ACJM-PHOP ACJM-HHOP ACJS-HHOP



ACJS-MVD985 ACJM-MVD985



ACJS-NH35 ACJM-NH35



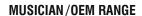
ACJM-PVB-2 ACJM-PVB-2S ACJS-PVB-3 ACJS-PVB-5



### 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>-</sup> 1.5mm <sup>2</sup> 3 Pole (Stereo): AWG 18 <sup>-</sup> 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	10A (Depends on Mating Connector and Cable)			
CHARACTERISTICS	Typical Contact Resistance Depends on Mating Connector				
	$\begin{array}{ll} \mbox{Insulation resistance (initial)} & > 2G\Omega \\ \mbox{After Damp Heat Test} & \geq 1G\Omega \end{array}$				
	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					
	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 ≥10³ 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 1000 cycles without any physical damage					
	Weight - Straight - Right Angle	18g (0.039lb) 25g (0.055lb)					
MATERIALS	Connector Shell Material	Nylon PA66 30% Glass Filled					
	Insulators	UL94 V-0 PBT Resin or Modified PPE Resin and fibreglass laminate					
	Metal Nut	Brass					
	Plastic Nut	Nylon PA66 30% Glass Filled					
	Washer	Fiber / Brass / Nylon PA66 30% Glass Filled					
	Contact Plating	Tin - 4µm Min. over 2µm Min.Cu (Copper) Silver - 0.3µm Min. over 2µm Min.Cu (Copper) Nickel - 2µm Min. over 2µm Min.Cu (Copper) Gold Flash - 0.05µm Min. over 2µm Min.Cu (Copper)					
	Contacts	Brass / Sn (Tin) over Cu (Copper)					

 $<sup>{}^{1}\!</sup>Approximate\ weight\ only,\ does\ not\ include\ packaging.\ Please\ contact\ us\ for\ exact\ weight\ for\ shipping\ purposes.$ 



#### M / K SERIES



# 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 0.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.



#### 3.5mm K-SERIES



#### Features:

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

Options: Black Shell, Gold contacts.

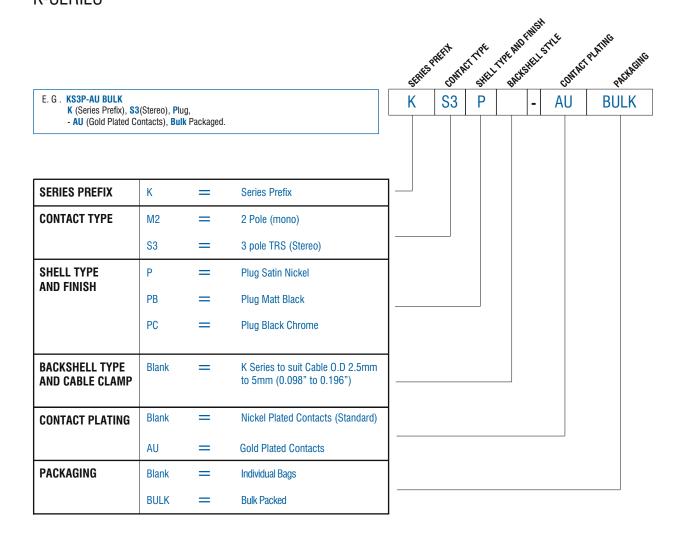
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		-49 [1.911"]——  —35 [1.370"]—  —6 6	3.5mm, Mono Phone plug,	Standard	KM2P
		-35 [1.370"] - 5 6	Diecast Shell, Satin finish,	Gold Plated Contacts	KM2P-AU
-		Angolomoi	Flexible grommet.	Bulk Pack	KM2P BULK
		-49 [1.911"]———————————————————————————————————	3.5mm, Mono Phone plug,	Standard	KM2PB
		-49 [1.911]	Diecast Shell, Black finish,	Gold Plated Contacts	KM2PB-AU
No.		Amphenol	Flexible grommet.	Bulk Pack	KM2PB BULK
	<b> </b>	——49 [1.911"]———————————————————————————————————	3.5mm, Stereo Phone plug, Diecast Shell, Satin finish, Flexible grommet.	Standard	KS3P
		-49 [1.911"]		Gold Plated Contacts	KS3P-AU
JAN.		Arephenol		Bulk Pack	KS3P BULK
	49 [1.911"]———————————————————————————————————	-49 [1.911"]	3.5mm, Stereo Phone plug,	Standard	KS3PB
The same of the sa		35 [1.370"]> 0 ₹ s s	Diecast Shell, Black finish,	Gold Plated Contacts	KS3PB-AU
Ho		Amphanol	Flexible grommet.	Bulk Pack	KS3PB BULK
The state of the s	51 [2.008"]	51 [2.008"]	3.5mm, Stereo Phone plug with extended shaft for mobile phones fitted	Standard	KS3PC
		with covers. Diecast Shell, Black Chrome finish, Flexible grommet	Gold Plated Contacts	KS3PC-AU	

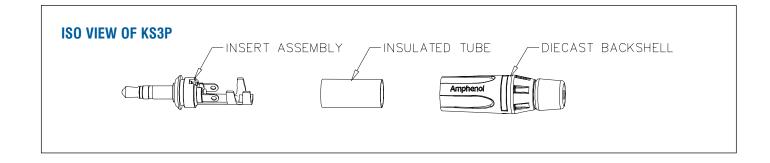


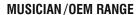


### PART NUMBER BREAKDOWN

**K-SERIES** 









### 3.5mm PLUG TECHNICAL DATA

		VALUE
GENERAL CHARACTERISTICS	Number of Contacts	2 Pole (Mono) 3 Pole Tip Ring Sleeve (Stereo)
	Termination	Solder
	Wire Gauge - Stranded Wire	2 Pole (Mono): AWG 16 - 1.5mm <sup>2</sup> 3 Pole (Stereo): AWG 18 - 1mm <sup>2</sup>
	Flammability rating of insulating plastics	UL94V-0
	Solderability, complies with	IEC 68-2-20
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU
ELECTRICAL	Current Carrying Capacity	>0.5mA (Depends on Mating Connector and Cable)
CHARACTERISTICS	Typical Contact Resistance	≤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

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



#### **RCA SERIES**



- Features:
   Stylish design
   Flexible grommet cable protection
   Robust diecast shell
   Gold plated contacts

- Colour coded
   Good solderability
   Quick and easy assembly
   Panel mount utilises standard 'D' type housing

Part Number Breakdown: Page 119

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	[.2	RCA Plug, Diecast	Red	ACPR-RED
	62 [2.445"]———————————————————————————————————	Shell, Gold plated contacts, Coloured	Black	ACPR-BLK
W.	02 [2.775]	finish, Flexible coloured grommet	Yellow	ACPR-YEL
	8	grommet	White	ACPR-WHT
	Amphanol		Blue	ACPR-BLU
-0			Green	ACPR-GRN
	3."]	RCA Plug, Diecast	Satin / Red	ACPR-SRD
	62 [2.445"]———————————————————————————————————	Shell, Gold plated contacts, Satin finish,	Satin / Black	ACPR-SBK
ACCES OF THE PARTY	02 [2.443]	Flexible coloured grommet	Satin / Yellow	ACPR-SYL
		grommet	Satin / White	ACPR-SWH
	Amphenoi		Satin / Blue	ACPR-SBL
-0	WWW T		Satin / Green	ACPR-SGR
	5"]	RCA Jack, Diecast Shell, Gold plated contacts, Coloured	Red	ACJR-RED
	24 [5 130]]		Black	ACJR-BLK
	54 [2.130"]	finish, Flexible coloured grommet	Yellow	ACJR-YEL
		grommet	White	ACJR-WHT
	Amphenol		Blue	ACJR-BLU
	1		Green	ACJR-GRN
	[	RCA Jack, Diecast	Satin / Red	ACJR-SRD
	27 20 72013	Shell, Gold plated contacts, Satin finish,	Satin / Black	ACJR-SBK
	54 [2.130"]————————————————————————————————————	Flexible coloured grommet	Satin / Yellow	ACJR-SYL
		grommet	Satin / White	ACJR-SWH
	Amphenol		Satin / Blue	ACJR-SBL
1 2 2	Y V		Satin / Green	ACJR-SGR
	50.5 [1.988"]——	RCA Plug, Shortened	Red	ACPL-CRD
57/2	20.5 [1.988"] + 5.05 [2.	Diecast Shell, Gold plated contacts, Black	Black	ACPL-CBK
	[ 8]	Chrome finish, Flexible coloured	Yellow	ACPL-CYL
		grommet	White	ACPL-CWH
	Amphenol		Blue	ACPL-CBL
			Green	ACPL-CGR

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



#### **M SERIES RCA**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	19 [.748*]	3 [.118*]		Red	ACJD-RED
26 [1054,] — 50 [11192,1] — 50 [1119		RCA Jack, Diecast	Black	ACJD-BLK	
	31 (122		Shell, Gold plated contacts, Nickel finish shell, coloured insulator.	Yellow	ACJD-YEL
				White	ACJD-WHT
				Blue	ACJD-BLU
				Green	ACJD-GRN

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

### PART NUMBER BREAKDOWN

M SERIES RCA

E. G. ACPR-RED BULK AC (Series Prefix), Plug, R(Shell type), RED (Shell and Grommet Colour), Bulk Packaged.			AC	Р	R	-	RED	BULK	
SERIES PREFIX	AC	=	Series Prefix	7_					
CONTACT TYPE	J P	= =	RCA Female Jack RCA Male Plug	Ī					
SHELL TYPE	R L D	= = =	Regular Shell Length Short Shell Length Chassis Jack 'D' Shell						
SHELL AND GROMMET COLOUR	RED BLK YEL WHT BLU GRN SRD CRD SBK CBK SYL CYL SWH CWH SBL CBL SGR CGR NOTE: De Chassis	= = = = = = = = = = = = = = = = = = =	Red, Red Grommet Black, Black Grommet Yellow, Yellow Grommet White, White Grommet Blue, Blue Grommet Green, Green Grommet Satin Nickel, Red Grommet Black Chrome, Red Grommet Satin Nickel, Black Grommet Black Chrome, Black Crommet Satin Nickel, Yellow Grommet Satin Nickel, Yellow Grommet Black Chrome, Yellow Grommet Satin Nickel, White Grommet Satin Nickel, Blue Grommet Satin Nickel, Blue Grommet Satin Nickel, Blue Grommet Satin Nickel, Green Grommet Black Chrome, Blue Grommet Satin Nickel, Green Grommet Black Chrome, Green Grommet Ur of insulator only on shell type D, ell. Shell finish is Nickel.						
PACKAGING	Blank	=	Individual Bags	Ī					
	BULK	=	Bulk Packed						





### **RCA TECHNICAL DATA**

		VALUE	
GENERAL	Number of Contacts	2	
CHARACTERISTICS	Termination	Solder	
	Max. Wire Gauge - Stranded Wire	AWG 14 - 2.5mm <sup>2</sup>	
	Flammability rating of insulating plastics	UL94V-0	
	Solderability, complies with	IEC 68-2-20	
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU	
ELECTRICAL	Current Carrying Capacity	10A (Depends on Mating Connector)	
CHARACTERISTICS	Typical Contact Resistance	≤10mΩ (Depends on Mating Connector)	
	Insulation resistance (initial) After Damp Heat Test	>2GΩ ≥ 10³ Meg Ω	
	Dielectric Strength	1500 V dc	
CLIMATIC	Protection Class	IP40	
CHARACTERISTICS	Operating Temperature	-25°C to +75°C (-13°F to +167°F)	
MECHANICAL	Insertion and Withdrawal Force	≥10N - ≤30N (depends on mating connector)	
CHARACTERISTICS	Cable O.D.	3mm to 7mm (0.118" to 0.275")	
	Mechanical Operations	500 mating cycles	
	Weight - Cable Mount - Panel Mount	18g (0.039lb) 30g (0.066lb)	
MATERIALS	Connector Shell Material (Plugs)	Diecast Zinc Alloy EZDA No.3	
	Connector Shell Finish	Satin Nickel or Coloured Polyester	
	Insulators	PA66	
	Cable Bushing	Thermoplastic Polyurethane	
	Contacts	Brass Alloy	
	Plating	Gold Flash	

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



#### **G-TYPE MINIATURE XLR**



#### **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

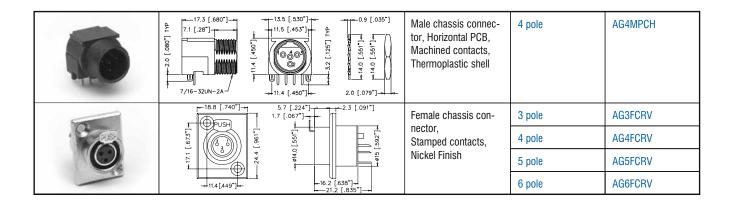
Part Number Breakdown: Page 122 Specifications: Page 123 PCB Footprints: Page 124 Panel Cutouts: Page 124

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	1		Male cable connector,	3 pole	AG3M
	ø10.5 [.413"]		Machined contacts, Nickel Finish	4 pole	AG4M
	ý .			5 pole	AG5M
	l-3	52 [2.055*]		6 pole	AG6M
			Female cable con-	3 pole	AG3F
Ca	ø10.5 [.413 <sup>™</sup> ]*		nector, Stamped contacts,	4 pole	AG4F
	Nickel Finish	Nickel Finish	5 pole	AG5F	
		49 [1.910"]		6 pole	AG6F
	9 [.3	6 [1.398"]————————————————————————————————————	Female cable connec-	3 pole	AG3FL
1	208;		tor with locking ring, Stamped contacts,	4 pole	AG4FL
Co	tor with locking ring, Stamped contacts, Nickel Finish.	5 pole	AG5FL		
3	16 [.634"]—	49 [1.929"]			AG6FL
	1.0 [.039*]	13.8 [.543"]	Male chassis	3 pole	AG3MCC
1000	//16"-32	12 [-4.72]	connector, Machined contacts,	4 pole	AG4MCC
6.0	7/16"-35		Nickel Finish	5 pole	AG5MCC
	2.0 [.079"]	17.8 [.701"]— 1 3 pole—		6 pole	AG6MCC
The state of the s	2.5 [.098"]	1.0 2.0 [.079"]	Female chassis	3 pole	AG3FCE
		PUSH	connector, Stamped contacts,	4 pole	AG4FCE
	16.5 [6507]	-16.5 [.726] -17.5 -17.5 -19.5 [.768]	Nickel Finish	5 pole	AG5FCE
	8.6 [.337"]	.4 [.333"]		6 pole	AG6FCE
	26.8 [1.056"]	-15.5 [.610"]	Male chassis	3 pole	AG3MCCH
		3.9 [.154] Trp	connector, Horizontal PCB,	4 pole	AG4MCCH
	2.5 [.0987]	3.9 [.11	Machined contacts, Nickel Finish	5 pole	AG5MCCH
	19.9 [.785"]	2.0 [.079*]	THORUT HIIOH	6 pole	AG6MCCH
012	28.3 [1.114"] 2.5 [.098"]— 8.4 [.333"]	1.0 [.079"]	Female chassis	3 pole	AG3FCCH
		PUSH	connector, Horizontal PCB,	4 pole	AG4FCCH
	-146 (575) -28 (1007) -140 (1757) -125 (7767)		Stamped contacts, Nickel Finish	5 pole	AG5FCCH
-		2.0	THOROTT HINDH	6 pole	AG6FCCH





#### **G TYPE CONNECTORS**



### PART NUMBER BREAKDOWN

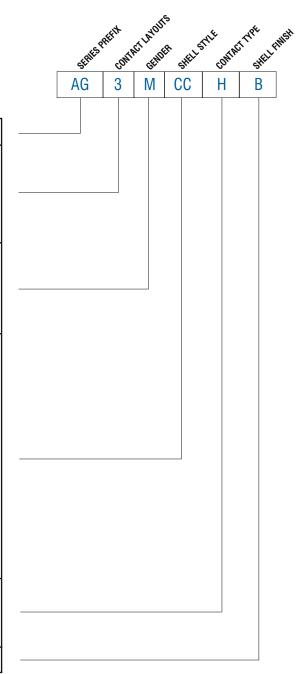
**G TYPE CONNECTORS** 

E. G. AG3MCCHB

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

Rlock finish

SERIES PREFIX	AG	=	Series Prefix
CONTACT LAYOUTS	3	=	3 Contacts
	4	=	4 Contacts
	5	=	5 Contacts
	6	=	6 Contacts
GENDER	F	=	Female Socket Contacts
	М	=	Male Pin Contacts
	Blank	=	Cable Connector Standard (Male or Female)
SHELL STYLE	J	=	Cable Connector Large Cable clamp / boot O.D (Male or Female)
	L	=	Cable Connector with locking ring (Female)
	LL	=	Latchless (Chassis Connector)
	CC	=	Chassis Connector Circular Metal (Male)
	CE	=	Rear Mount (Chassis Connector)
	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





#### **G TYPE CONNECTORS**

### **STANDARD DATA G TYPE**

			VA	LUE					
GENERAL	Number of Contacts	3	4	5	6				
CHARACTERISTICS	Termination		Printed Circuit Board	(PCB) or Solder Bucket	•				
	Max. Wire Gauge - Stranded Wire		AWG 24 - 0.5mm <sup>2</sup>		AWG 28 - 0.38mm <sup>2</sup>				
	Flammability		UL	94V-0					
	Environmental		Complies with EU RoH	S 2 Directive 2011/65/EU					
ELECTRICAL	Service Voltage RMS	1000V 250V							
CHARACTERISTICS	Test Voltage AC RMS		129	5V AC					
	Current Carrying Capacity	5A	5A	4A	1.2A				
	Typical Contact Resistance		≤1	0mΩ					
	Insulation resistance (initial) After Damp Heat Test			10MΩ 0MΩ					
	Dielectric Strength		150	0 V dc					
CLIMATIC	Protection Class		I	P00					
CHARACTERISTICS	Operating Temperature		-30°C to +80°	C (-20F - +176F)					
MECHANICAL	Insertion Spring Separating Force		≥	20N					
CHARACTERISTICS	Cable O.D.	2mm to 3.5m	m (0.078" to 0.137")	3mm to 5mm (	0.118" to 0.196")				
	Mechanical Operations		5000 mating cycles		2000 mating cycles				
	Weight		13.5g	(0.029lb)					
MATERIALS	Connector Shell		Bronz	e & Zinc					
	Connector Shell Finish		Nicke	el Plated					
	Insulators		PPS	- Black					
	Male Contact			Brass C3604 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/Backshell		ABS	- Black					
	Grommet		PU -	- Black					

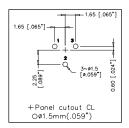
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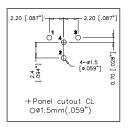
#### **G TYPE CONNECTORS**

#### PANEL CUTOUTS

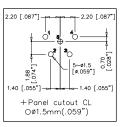
#### - CONNECTOR SIDE OF PCB



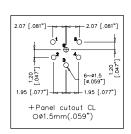
AG3MCC



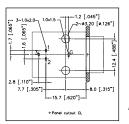
AG4MCC



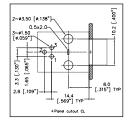
AG5MCC



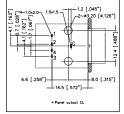
AG6MCC



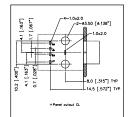
AG3FCCH



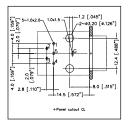
AG3MCCH



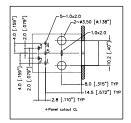
AG4FCCH



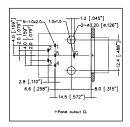
AG4MCCH



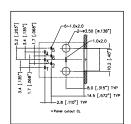
AG5FCCH



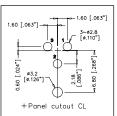
AG5MCCH



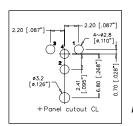
AG6FCCH



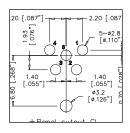
AG6MCCH



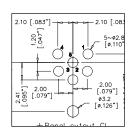
AG3FCRV



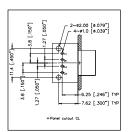
AG4FCRV



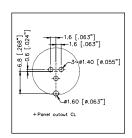
AG5FCRV



AG6FCRV



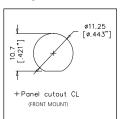
AG4MPCH



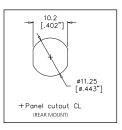
AG3FCE

### **PANEL CUTOUTS**

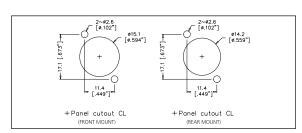
#### - FRONT VIEW



AG3MCC AG4MCC AG5MCC AG6MCC



AG3MCCH AG4MCCH AG5MCCH AG6MCCH AG4MPCH



AG3FCRV AG4FCRV AG5FCRV AG6FCRV





### 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.

## Simple steps to guide you in using this catalogue

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



#### **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 129 Specifications: Page 130 Part Number Breakdown: Page 129 Wiring Information: Page 140

PRODUCT - FIGURE	Dimensions in mm (inches)	Dimension	ns in mm (ir	nches)	PINS	PART NUMBER	PART NUMBER
FRODUCT - FIGURE	DRAWING	Α	В	PG	LINO	FAITI NUMBER	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-0
	complete with contacts.	44	171				
	D	(1.73)	(6.73)	13.5	19	MP-4106-19S	MP-4106-19S-0
		46.6	193				
1. Mari		(1.83)	(7.60)	16	25	MP-4106-25S	MP-4106-25S-0
		54.3	210				
111	13, 19, 25, 37 and 54 contact type	(2.14)	(8.26)	21	37	MP-4106-37S	MP-4106-37S-
	13, 17, 23, 37 and 34 contact Type	60.1	210				
		(2.36)	(8.26)	21	54	MP-4106-54S	MP-4106-54S-
	V o o o o o o o o o o o o o o o o o o o	73.3	137				
		(2.88)	(5.40)	29	85	MP-4106-85S	MP-4106-85S-
	85 and 150 contact type	73.3	145				
	os and iso contact Type	(2.88)	(5.70)	36	150	MP-4106-150S	MP-4106-150S
	Cable connecting receptacle with	37.8	160				
	pin contacts, black finish, supplied	(1.49)	(6.30)	11	13	MP-4101-13P	MP-4101-13P-
	complete with contacts.	41.1	171				
		(1.62)	(6.73)	13.5	19	MP-4101-19P	MP-4101-19P-
	В-	41.5	193				
		(1.63)	(7.60)	16	25	MP-4101-25P	MP-4101-25P-
144		51	210				
11111	PG-	(2.00)	(8.26)	21	37	MP-4101-37P	MP-4101-37P-
	13, 19, 25, 37 and 54 contact type	57.1	210				
	B	(2.25)	(8.26)	21	54	MP-4101-54P	MP-4101-54P-
	A A A	70	137				
		(2.75)	(5.40)	29	85	MP-4101-85P	MP-4101-85P-
	85 and 150 contact type	70	145				
	op and 150 contact type	(2.75)	(5.70)	36	150	MP-4101-150P	MP-4101-150F

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



#### **MP-41 SERIES**

	Dimensions in mm (inches)		Di	mensions	in mm (inc	ches)				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
0//	with contacts.	41	31.8	3.2	44	38.8				
1 1		(1.61)	(1.25)	(0.13)	(1.73)	(1.53)	N/A	19	MP-4164-19S	MP-4164-19S-C
200000		44.5	34.9	3.73	48.51	40.6	N1/A	0.5	MD 4404 050	MP-4164-25S-C
A . 1998	A ————————————————————————————————————	(1.75)	(1.37)	3.73	(1.91)	(1.60)	N/A	25	MP-4164-25S	WIF -4 104-233-0
		(1.99)	(1.56)	(0.14)	(2.14)	(1.65)	N/A	37	MP-4164-37S	MP-4164-37S-C
111-	4 m (00000)	57	44.5	4.39	60.8	45	14//	0.		
		(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				
		(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	29.4	3.23	34.2	34.5	29			14D 4400 40D 0
	black finish, supplied complete with	(1.49)	(1.15)	(0.13)	(1.34)	(1.35)	(1.14)	13	MP-4102-13P	MP-4102-13P-C
	contacts.	(1.61)	31.8 (1.25)	3.23	37.4 (1.47)	34.5	32.2 (1.26)	19	MP-4102-19P	MP-4102-19P-C
		(1.61)	34.9	(0.13)	40.9	(1.35)	35.3	19	IVIF-41UZ-19P	WII -4107-13L-0
10 10 10 1		(1.75)	(1.37)	(0.14)	(1.61)	(1.40)	(1.38)	25	MP-4102-25P	MP-4102-25P-C
31		50.8	39.7	3.73	46.7	36.5	41.4		WII 1102 201	
	A P P P P P P P P P P P P P P P P P P P	(1.99)	(1.56)	(0.14)	(1.83)	(1.44)	(1.62)	37	MP-4102-37P	MP-4102-37P-C
11111		57	44.5	4.30	53.4	38.5	47.8			
		(2.24)	(1.75)	(0.17)	(2.10)	(1.52)	(1.88)	54	MP-4102-54P	MP-4102-54P-C
	4 m (00000)	69.8	55.5	4.30	65.5	38.5	59			
		(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			MD 4400 450D 0
		(2.74)	(2.18)	(0.17)	(2.57)	(1.52)	(2.32)	150	MP-4102-150P	MP-4102-150P-C
	Plug protective dustcap to suit MP-	34.16	31.5	110	4.7			10	MD 05040 400	
	4164 type.	(1.35)	(1.24)	(4.33)	(0.18)	-	-	13	MP-25042-13S	-
	31	(1.47)	(1.24)	(4.33)	(0.18)	_	_	19	MP-25042-19S	_
		40.87	31.5	110	4.7			10	WII 20042 130	
( 1 mm)	_	(1.61)	(1.24)	(4.33)	(0.18)	_	_	25	MP-25042-25S	-
		46.68	31.5	110	4.7					
		(1.84)	(1.24)	(4.33)	(0.18)	-	-	37	MP-25042-37S	-
		53.36	31.5	110	5.5					
36		(2.10)	(1.24)	(4.33)	(0.22)	-	-	54	MP-25042-54S	-
		65.48	31.5	110	5.5					
		(2.58)	(1.24)	(4.33)	(0.22)	-	-	85	MP-25042-85S	-
		65.48 (2.58)	31.5	110 (4.33)	5.5 (0.22)	_		150	MP-25042-150S	_
		38.8	(1.24)	255	(0.22)	-	<del>-</del>	130	WII -23042-1303	
	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						
		(1.78)	(0.81)	(8.07)	-	-	-	25	MP-25042-25L	-
1 2		52.15	20.7	255						
		(2.05)	(0.81)	(8.07)	-	-	-	37	MP-25042-37L	-
0		58.6	20.7	255				F.	MD 05040 541	
	- m -	(2.30)	(0.81)	(8.07)	-	-	-	54	MP-25042-54L	-
		(2.78)	(0.81)	(8.07)	_	_		85	MP-25042-85L	_
		70.7	20.7	255	<u> </u>	<u> </u>	<del>-</del>	UJ	WII -20042-00L	
		(2.78)	(0.81)	(8.07)	_	_	_	150	MP-25042-150L	_
L	I .	(=., 0)	(5.01)	(0.01)			L	.50	20012 1002	



#### **ACCESSORIES**

PRODUCT - FIGURE	Dimensions in mm (inches)		Di	mensions	in mm (inc	hes)		DING	PART NUMBER
Thoboti - Huoni	DRAWING		В	С	D	E	F	FINO	TI AITI NOMBEIT
		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
26	<b>◎ □</b>	53.36	31.5	110	5.5				
~	- *A	(2.10)	(1.24)	(4.33)	(0.22)	-	-	54	MP-25043-54S
		65.48	31.5	110	5.5				
		(2.58)	(1.24)	(4.33)	(0.22)	-	-	85	MP-25043-85S
		65.48	31.5	110	5.5				
		(2.58)	(1.24)	(4.33)	(0.22)	-	-	150	MP-25043-150S
		38.8	20.7	255					
	Receptacle protective dustcap to	(1.53)	(0.81)	(8.07)	-	-	-	13	MP-25043-13L
	suit MP-4101 types.	41.6	20.7	255					
		(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
5		52.15	20.7	255					
		(2.05)	(0.81)	(8.07)	-	-	-	37	MP-25043-37L
0	<sup>t</sup>	58.6	20.7	255					
	<u> </u>	(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



#### **ACCESSORIES**

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
	NI/A	Solder/Crimp Pin Contact	13-85 (Size 16)	MP-108400
	N/A	Crimp Pin Contact (Soldering of this contact is not recommended)	150 (Size 18)	MP-108300
	NI/A	Solder/Crimp Socket Contact	13-85 (Size 16)	MP-108600
	N/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 HOUSING THE MULTIPIN CIRCULAR CONNECTORS E. G. MP-4106-85S Multipin, 4106 Cable Plug, 85 Contacts, S Female Socket Contacts, MP 4106 85 S C **SERIES PREFIX** MP Series Prefix **HOUSING TYPE** 4101 Inline cable connecting receptacle 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 P \_ Male pin contacts **GENDER** \*Not required for dustcap S = Female socket contacts part numbers C **OPTIONS** Supplied with Dustcap



### **STANDARD DATA MP-41 SERIES**

					VALUE				
GENERAL CHARACTERISTICS	Number of contacts	13	19	25	37	54	85	150	
CHAKACTERISTICS	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			100	00V			1000V	
	Current Carrying Capacity			13	A			7.5A	
	Typical Contact Resistance			3.46	mΩ			11.25mΩ	
	Insulation Resistance			5000	ΟΜΩ				
CLIMATIC CHARACTERISTICS	Protection Class			IP67 (wh	nen mated)				
CHARACIERISTICS	Operating Temperature		-55°	°C to +125°C	(-67°F to +2	57°F)			
MECHANICAL Characteristics	Cable Retention			PG (	Gland				
CHARACIERISTICS	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 / Gold plated							
CLAMPING CHARACTERISTICS	PG Gland	11	13.5	16	2	21	29	36	
CUNKACIEKISIICS	Cable Clamping range mm	4-10	5-12	9-14		-18	14-25	19-32	
	(inches)	(0.15"- 0.39")	(0.19"- 0.47")	(0.35"- 0.55")	(0.51"	- 0.70")	(0.55"- 0.98")	(0.74"- 1.25")	

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



#### MP-62/MP-65 SERIES



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

#### Features:

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

**Specifications: Page 133** Wiring Info: Page 139

PRODUCT - FIGURE	Dimensions in mm (inches)  DRAWING	Dimension A	ns in mm (in B	ches)	PINS	PART NUMBER	PART NUMBER With Dustcap
	Straight cable plug with pin contacts, Black finish, Gold plated solder contacts.	38.9	181.5	16	39		
	B—————————————————————————————————————		(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
- Cross	Cable connecting receptacle with socket contacts, Black finish, Gold plated solder contacts.	36.7	181.5	16	39		
	B	(1.45)	(7.15)			MP-6211-39S	MP-6211-39S-C
		43.0	193	21	61		
	CPG	(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	38.9	90	NPT	39		
	solder contacts.	(1.53)	(3.54)	3/4"		MP-6516-39P	MP-6516-39P-C
	Per l'accus	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
			100	NPT	61		
		(1.70)	(3.94)	3/4"		MP-6511-61S	MP-6511-61S-C



#### **ACCESSORIES**

PRODUCT - FIGURE	Dimensions in mm (inches)  DRAWING		Dime	nsions i	ı mm (iı	nches)		PINS	PART	PART NUMBER
	Dhawiiid	Α	В	C	D	E	F		NUMBER	With Dustcap
•	Panel plug with pin contacts, Black finish, Gold plated solder contacts.	38.86	29.36	6-32	39.0	32	-			
	A - ØC	(1.53)	(1.16)	UNC	(1.54)	(1.26)	-	39	MP-6256-39P	MP-6256-39P-C
		43.94	34.93	6-32	45.5	35	-			
	-E		(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			
	A ØC	(1.44)	(1.15)	(0.12)	(1.25)	(0.87)	(1.18)	39	MP-6212-39S	MP-6212-39S-C
		43.0	34.93	3.74	38.1	22.3	36.4			
1000	-E-	(1.69)	(1.38)	(0.15)	(1.50)	(0.87)	(1.43)	61	MP-6212-61S	MP-6212-61S-C

PRODUCT - FIGURE	DDAWING	DECCRIPTION	0	imensions	in mm (inc	hes)	PINS	DADT NUMBER
FNUUULI - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	A D	В	C		LINO	PART NUMBER
		Plug protective dustcap to suit MP-6256	31.7	15.9	127	4.40	39	MP-742-39S
C. Marie			(1.25)	(0.62)	(4.99)	(0.17)		
			38.05	16.70	127	4.40	61	MP-742-61S
			(1.50)	(0.66)	(4.99)	(0.17)		
		Receptacle protective dustcap to suit MP-6216	36.9	13.13	127	-	39	MP-742-39L
POLICE TO A STATE OF THE PARTY		]	(1.45)	(0.52)	(4.99)		39	WP-742-39L
			43.14	14.15	127	-	61	MP-742-61L
		(b) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	(1.70)	(0.56)	(4.99)			WIF-742-01L
		Plug protective dustcap to suit MP-6212	31.7	15.9	127	4.40	39	MD 700 000
Carlo	c—		(1.25)	(0.62)	(4.99)	(0.17)	39	MP-738-39S
			38.05	16.70	127	4.40		
		ØA	(1.50)	(0.66)	(4.99)	(0.17)	61	MP-738-61S
19 5507		Receptacle protective dustcap to suit MP-6211	36.9	13.13	127	-	00	MD 700 001
	<b>c</b>		(1.45)	(0.52)	(4.99)		39	MP-738-39L
0			43.14	14.15	127	-	61	MP-738-61L
-		ØA	(1.70)	(0.56)	(4.99)		01	WIF-730-01L



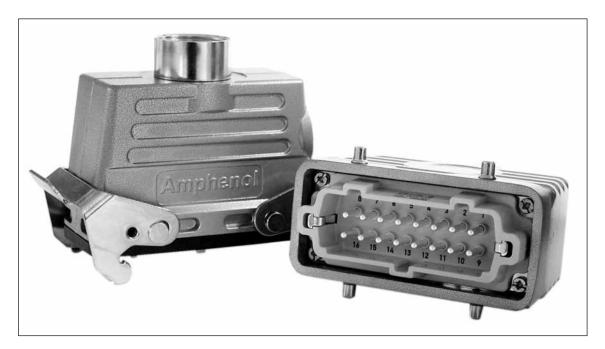
### STANDARD DATA MP-62 SERIES / MP - 65 SERIES

		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	600	)V*					
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	DMΩ					
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 cy	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	ating 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



#### **COMPLEMENTARY PRODUCTS**



#### **146 SERIES RECTANGULAR 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,	Nickel Finish	AC3M3MW
	AMPHENOL. [0.748"]	Pre wired, Metal Shell	Black Finish	AC3M3MBW
	AMPRIENCE.   19.0   (*7.6*)	XLR 3 pole female to 3 pole female adapter,	Nickel Finish	AC3F3FW
		Pre wired, Metal Shell	Black Finish	AC3F3FBW
	AMPHENIOL (619.0 (6.748°)	XLR 3 pole female to 3 pole male adapter,	Nickel Finish	AC3F3FBW
		Pre wired, Metal Shell	Black Finish	AC3F3MBW
9/9/	g	XLR 3 pole female to 5 pole male adapter,	Nickel Finish	AC3F5MW
		Pre wired, Metal Shell		
	B B B C 11 (0.744)	XLR 3 pole male to 5 pole female adapter,	Nickel Finish	AC3M5FW
		Pre wired, Metal Shell		
	θ <b>Β</b> Β Β Β Β Γ (0.74e*)	XLR 5 pole male to 5 pole male adapter,	Nickel Finish	AC5M5MW
	76 [2 991"]	Pre wired, Metal Shell		
(6)		XLR D shell adapter, 3 pole male to 3 pole male, Pre-wired	Not Applicable	AC3M3MDW
6	75 - 75 - 75 - 75 - 75 - 75 - 75 - 75 -	XLR D shell adapter, 3 pole female to 3 pole female, Pre-wired	Not Applicable	AC3F3FDW
		XLR D shell adapter, 3 pole female to 3 pole male, Pre-wired	Not Applicable	AC3F3MDW
26		XLR D shell adapter, 5 pole male to 5 pole male, Pre-wired	Not Applicable	AC5M5MDW
		XLR D shell adapter, 5 pole female to 5 pole female, Pre-wired	Not Applicable	AC5F5FDW



PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	29 Stant	75	XLR D shell adapter, 5 pole female to 5 pole male, Pre-wired	Not Applicable	AC5F5MDW
0		75	SP D shell adapter, SP-2 to SP-2, Pre- wired	Not Applicable	SP2F2FDW
0			SP D shell adapter, SP-4 to SP-4, Pre- wired	Not Applicable	SP4F4FDW
6		75	BNC D shell adapter, Jack to Jack, Pre- wired	Not Applicable	ACBNCJJDW
		75	D shell adapter without connectors	Not Applicable	AC-D-ADAPTER
THE REPORT OF THE PARTY OF THE			XLR 3 pole female to RJ45 socket adapter, Pre-wired	Nickel Finish	AC3F8FW
		209	XLR 3 pole male to RJ45 socket adapter, Pre-wired	Nickel Finish	AC3M8FW
To the second		6 8 225 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	XLR 5 pole female to RJ45 socket adapter, Pre-wired	Nickel Finish	AC5F8FW
	G G		XLR 5 pole male to RJ45 socket adapter, Pre-wired	Nickel Finish	AC5M8FW
		100 (100 m) 100 (1	Termination Tool	For IDC and Solder cable connectors	T2860
	7 #50 TRU #86 V 55	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Termination Tool	For AC Series Right Angle cable connectors	T2880
	7 #50 DBU	150 (100 to 100	Termination Tool	For AX Series cable connectors	T2890
9	95.5 L2201	2.0 1.0771 [.3071	A Type / C Type Connector Mounting, Self-Tapping Screw	2.9 x 1.06 Tri-rondular	52500014-734
<b>&gt;</b>	04.50	M25 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
			Orange	AX-B00T-3
	↓		Yellow	AX-B00T-4
	83/		Green	AX-BOOT-5
	Ø2121833		Blue	AX-BOOT-6
			Violet	AX-B00T-7
	39.0 [154]		Grey	AX-B00T-8
			White	AX-BOOT-9
			Black	AX-BOOT
			Clear	AX-B00T-CLR
		AX Series Sleeve for	Black	AX-MARK0
	N 4	Custom Print	Brown	AX-MARK1
		Note: Custom printed	Red	AX-MARK2
EI A		numbers available (Please contact us)	Orange	AX-MARK3
ec.	78.89	1	Yellow	AX-MARK4
-			Green	AX-MARK5
			Blue	AX-MARK6
	1 1		Violet	AX-MARK7
	20.9		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
	020.2		Green	AC-NUT-GRN
	[6.7]		Blue	AC-NUT-BLU
			Violet	AC-NUT-VIO
			Grey	AC-NUT-GRY
			White	AC-NUT-WHT
		Coloured Grommets to	Brown	AC-GROMMET-BRN
Photographic Co.		suit AC Series, T Series and Musician range	Red	AC-GROMMET-RED
	0 2.90 15.0 2.591"]	anu musician range	Orange	AC-GROMMET-ORG
	0.30 0.30 0.30 0.30 0.30 0.30 0.30 0.30		Yellow	AC-GROMMET-YEL
			Green	AC-GROMMET-GRN
			Blue	AC-GROMMET-GRN
			Violet	AC-GROMMET-VIO
			Grey	AC-GROMMET-GRY
7.0			White	AC-GROMMET-WHT

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



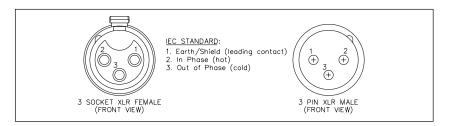
PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		AC Coloured	Brown	AC-RING-BRN
		Identification Rings  – Plain and Numbered	Red	AC-RING-RED
		Note: Custom number	Orange	AC-RING-ORG
		Identification optional. (Please contact us.)	Yellow	AC-RING-YEL
	4.9 [.188*] ø17.0 [ø.652*]		Green	AC-RING-GRN
000	Ø21.6 16/82971		Blue	AC-RING-BLU
0			Violet	AC-RING-VIO
			Grey	AC-RING-GRY
			White	AC-RING-WHT
			Red #1-24	AC-RING-RED-PK1
			Yellow #1-24	AC-RING-YEL-PK1
			Blue #1-24	AC-RING-BLU-PK1
			Red #1-48	AC-RING-RED-PK2
			Yellow #1-48	AC-RING-YEL-PK2
			Blue #1-48	AC-RING-BLU-PK2
	49.5 [1.949"] \$\tilde{\text{\$\cup\$}} \text{\$\cup\$}	AC Metal Boot / Backshell, Black Finish	Not Applicable	AC-NUT-METAL
	49.5 [1,949*]	AC Thermoplastic Boot / Backshell. Suitable for use with 8.5mm (0.33") O.D. cable.	Not Applicable	AC-NUT-J-BLK
	3.5 [138°] ————————————————————————————————————	M3 threaded metal plate to suit D-type chassis connectors	Nickel Finish	52590060-300
1	1.83 %.4	M3 Screw to suit 52590060-300 M3 x 0.5	Nickel Finish  Matt Black	52500016-300 52500016-400
	5.3-0.3			



### AC SERIES PANEL MOUNT CONNECTORS

### **CONNECTOR WIRING INFORMATION**

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

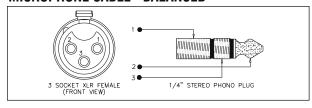


The standard XLR 3 contact pin outs are as shown above for a balanced lead. In such a configuration audio "Hot" (pin 2) is the in-phase connection whilst audio "Cold" (pin 3) is the out-of-phase connection. For an unbalanced lead however, you may connect pin 1 to either pin 2 or pin 3, but not both.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

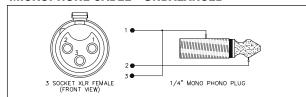
When terminating the cable shielding to pin 1 it is suggested that the shield be only grounded at one end of the cable to avoid inducing "hum". Pin 1 is a leading contact that engages at interconnection, before pin 2 or pin 3.

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

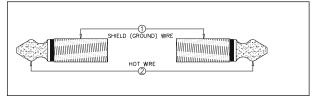
#### **MICROPHONE CABLE - BALANCED**



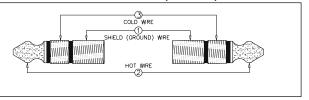
#### **MICROPHONE CABLE - UNBALANCED**



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



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





### **CONNECTOR WIRING INFORMATION**

#### **MP Series**

MP-41 Series 4 Ch \_13 nin

4 UII - 13 PIII			
Ch	+	-	G
1	В	С	Е
2	F	K	Н
3	J	D	Α
4	N	M	G
General			
Ground	L		



MP-62 Series

Ch

12 Ch-39 pin

+ - G

p n q

w A X

N f P

L e M

J d K

G c H

E b F

D a Z

C B Y

i h T

R g S

N/A

٧

U j

10

11

12

General

Ground

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



MP-62 Series

Ch

20 Ch-61 pin

+ - G

JJ HH NN

мм кк РР

вв аа сс

s FF W

r EE V

e D

MP-41 Series MP-41 Series

8 Ch -25 pin				
Ch	+	-	G	
1	Α	Ε	F	
2	G	С	В	
3	D	Н	J	
	M	L	K	
5	Q	Р	N	
6	W	S	R	
7	Т	Х	Υ	
8	Z	٧	U	
General				
Ground	a			



MP-41 Series

12 Ch	<del> -</del> (	37	pin
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
8	a	b	g
9	С	d	j
10	е	f	m
11	n	р	h
12	r	s	k
General			
Ground		Z	



MP-41 Series

pin

AG

16 Ch-54 pi					
	Ch	+	-	G	
	1	W	f	r	
	2	J	R	a	
	3	k	٧	AC	
	4	Ε	M	٧	
	5	е	q	у	
	6	В	Н	Р	
	7	Z	j	u	
	8	D	L	U	
	9	d	р	х	
	10	Α	G	0	
	11	Υ	h	t	
	12	С	K	Т	
	13	С	n	W	
	14	F	N	Χ	
	15	g	s	AB	
	16	S	b	m	

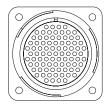


General

Ground

#### MP-41 Series 28 Ch-85 nin

Ch         +         -         G           1         A         B         C           2         E         F         H           3         J         K         L           4         N         P         R           5         S         T         U           6         X         Y         Z           7         a         b         c           8         d         d         f         g           9         h         i         j         g           10         k         m         n         n           11         p         q         r         r           12         t         u         v         v           13         w         x         y         y           14         z         AA         AB           15         AC         AD         AE           16         AF         AH         AJ           17         AK         AL         AM           18         AP         AR         AS           19         AT         AU         AV	20 U	I-(	υŰ	μII
2     E     F     H       3     J     K     L       4     N     P     R       5     S     T     U       6     X     Y     Z       7     a     b     c       8     d     f     g       9     h     i     j       10     k     m     n       11     p     q     r       12     t     u     v       13     w     x     y       14     z     AA     AB       15     AC     AD     AE       16     AF     AH     AJ       17     AK     AL     AM       18     AP     AR     AS       19     AT     AU     AV       20     AW     AX     AY       21     AZ     BA     BB       22     BC     BD     BE       23     BJ     BK     BL	Ch	+	-	G
3 J K L 4 N P R 5 S T U 6 X Y Z 7 a b c 8 d f g 9 h i i j 10 k m n 11 p q r 12 t u v 13 w x y 14 z AA AB 15 AC AD AE 16 AF AH AJ 17 AK AL AM 18 AP AR AS 19 AT AU AV 20 AW AX AY 21 AZ BA BB 22 BC BD BE 23 BJ BK BL	1	Α	В	С
4     N     P     R       5     S     T     U       6     X     Y     Z       7     a     b     c       8     d     f     g       9     h     i     j       10     k     m     n       11     p     q     r       12     t     u     v       13     w     x     y       14     z     AA     AB       15     AC     AD     AE       16     AF     AH     AJ       17     AK     AL     AM       18     AP     AR     AS       19     AT     AU     AV       20     AW     AX     AY       21     AZ     BA     BB       22     BC     BD     BE       23     BJ     BK     BL	2	Е	F	Н
S T U 6 X Y Z 7 a b c 8 d f g 9 h i j 10 k m n 11 p q r 12 t u v 13 w x y 14 z AA AB 15 AC AD AE 16 AF AH AJ 17 AK AL AM 18 AP AR AS 19 AT AU AV 20 AW AX AY 21 AZ BA BB 22 BC BD BE 23 BJ BK BL	3	J	K	L
6 X Y Z 7 a b c 8 d f g 9 h i j 10 k m n 11 p q r 12 t u v 13 w x y 14 z AA AB 15 AC AD AE 16 AF AH AJ 17 AK AL AM 18 AP AR AS 19 AT AU AV 20 AW AX AY 21 AZ BA BB 22 BC BD BE 23 BJ BK BL	4	N	Р	R
7 a b c 8 d f g 9 h i j 10 k m n 11 p q r 12 t u v 13 w x y 14 z AA AB 15 AC AD AE 16 AF AH AJ 17 AK AL AM 18 AP AR AS 19 AT AU AV 20 AW AX AY 21 AZ BA BB 22 BC BD BE 23 BJ BK BL	5	S	Т	U
8 d f g 9 h i j 10 k m n 11 p q r 12 t u v 13 w x y 14 z AA AB 15 AC AD AE 16 AF AH AJ 17 AK AL AM 18 AP AR AS 19 AT AU AV 20 AW AX AY 21 AZ BA BB 22 BC BD BE 23 BJ BK BL	6	Х	Υ	Z
9 h i j 10 k m n 11 p q r 12 t u v 13 w x y 14 z AA AB 15 AC AD AE 16 AF AH AJ 17 AK AL AM 18 AP AR AS 19 AT AU AV 20 AW AX AY 21 AZ BA BB 22 BC BD BE 23 BJ BK BL	7	a	b	С
10 k m n 11 p q r 12 t u v 13 w x y 14 z AA AB 15 AC AD AE 16 AF AH AJ 17 AK AL AM 18 AP AR AS 19 AT AU AV 20 AW AX AY 21 AZ BA BB 22 BC BD BE 23 BJ BK BL	8	d	f	g
11	9	h	i	j
12 t u v 13 w x y 14 z AA AB 15 AC AD AE 16 AF AH AJ 17 AK AL AM 18 AP AR AS 19 AT AU AV 20 AW AX AY 21 AZ BA BB 22 BC BD BE 23 BJ BK BL	10	k	m	n
13 W X Y 14 Z AA AB 15 AC AD AE 16 AF AH AJ 17 AK AL AM 18 AP AR AS 19 AT AU AV 20 AW AX AY 21 AZ BA BB 22 BC BD BE 23 BJ BK BL	11	р	q	r
14 Z AA AB 15 AC AD AE 16 AF AH AJ 17 AK AL AM 18 AP AR AS 19 AT AU AV 20 AW AX AY 21 AZ BA BB 22 BC BD BE 23 BJ BK BL	12	t	u	٧
15 AC AD AE 16 AF AH AJ 17 AK AL AM 18 AP AR AS 19 AT AU AV 20 AW AX AY 21 AZ BA BB 22 BC BD BE 23 BJ BK BL	13	w	Х	у
AF AH AJ  17 AK AL AM  18 AP AR AS  19 AT AU AV  20 AW AX AY  21 AZ BA BB  22 BC BD BE  23 BJ BK BL	14	z	AA	AB
17 AK AL AM 18 AP AR AS 19 AT AU AV 20 AW AX AY 21 AZ BA BB 22 BC BD BE 23 BJ BK BL	15	AC	AD	ΑE
18 AP AR AS 19 AT AU AV 20 AW AX AY 21 AZ BA BB 22 BC BD BE 23 BJ BK BL	16	AF	АН	AJ
19 AT AU AV 20 AW AX AY 21 AZ BA BB 22 BC BD BE 23 BJ BK BL	17	AK	AL	AM
20 AW AX AY 21 AZ BA BB 22 BC BD BE 23 BJ BK BL	18	AP	AR	AS
21 AZ BA BB 22 BC BD BE 23 BJ BK BL	19	ΑТ	AU	ΑV
22 BC BD BE 23 BJ BK BL	20	AW	AX	AY
23 BJ BK BL	21	ΑZ	ВА	ВВ
	22	вс	BD	BE
24 BM BN BP	23	BJ	BK	BL
	24	ВМ	BN	ВР



25

26

27

28

General

Ground

BS BT BU

BV BR BF

BH AN s

W M D

MP-41 Series 48 Ch - 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
ш	•			1

113 114 115

116 117 118

119 120 121

122 123 124

136 137 138

140 141 142 143 144 145

150

38 39

40

41

42

45

46

48

Ground



7	f	Е	у
8	q	DD	U
9	S	p	Т
10	Р	N	R
11	m	k	п
12	L	K	М
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		





0		AC3FDZB-AU	19	AC4MAH-AU-B	34	AC6AM BULK	13	ACJC5HL BULK	44
Symbols		AC3FDZB-AU AC3FDZB BULK	19	AC4MB	12	AC6AMDZ	21	ACJC5S BULK	44
47-10070	86	AC3FDZ BULK	19	AC4MB-AU	12	AC6AMDZB	21	ACJC5SL BULK	44
47-10070	86	AC3FJ	11	AC4MB BULK	12	AC6AMDZB-AU	21	ACJC5V BULK	44
47-10090	86	AC3FPZ	22	AC4MBJ	12	AC6AMDZB BULK	21	ACJC5VL BULK	44
47-10110	86	AC3M	11	AC4M BULK	12	AC6AMDZ BULK	21	ACJC6AH BULK	42
47-10120	86	AC3M3MBW	135	AC4MDZ	20	AC6AMDZV	21	ACJC6AHL BULK	42
112119	85	AC3M3MDW	135	AC4MDZB	20	AC6AMDZVB	21	ACJC6AV2 BULK	42
112133	85	AC3M3MW	135	AC4MDZB-AU	20	AC6AMJ	13	ACJC6AV2L BULK	42
112507	85	AC3M5FW	135	AC4MDZB BULK	20	AC6AMP	22	ACJC6AV BULK	42
112508	85	AC3M8FW	136	AC4MDZV	20	AC6AMPNZ	22	ACJC6AVL BULK	42
112509	85	AC3MA-AU-PRE	28	AC4MDZVB	20	AC7F	13	ACJC6H BULK	45
112519	85	AC3MAH1-AU-PRE	27	AC4MJ	12	AC7FB	13	ACJC6HL BULK	45
112521	85	AC3MAH2-AU-PRE	27	AC4MP	22	AC7FB BULK	13	ACJC6S BULK	45
112565	85	AC3MAH4-SW-B	27	AC4MPNZ	22	AC7FBJ	13	ACJC6SL BULK	45
112606	85	AC3MAH-AU-PRE	27	AC5F	12	AC7F BULK	13	ACJC6V BULK	45
112950	85	AC3MAV2-AU-PRE	28	AC5F5FDW	135	AC7FDZ	21	ACJC6VL BULK	45
112951	85	AC3MAV-AU-PRE	27	AC5F5MDW	136	AC7FDZB	21	ACJC9AH BULK	42
112952	85	AC3MB	11	AC5F8FW	136	AC7FDZB BULK	21	ACJC9AHL BULK	42
112953	85	AC3MB-AU	11	AC5FAH-AU-B	34	AC7FDZ BULK	21	ACJC9AV2 BULK	43
112955	85	AC3MB BULK	11	AC5FAV-AU-B	34	AC7FDZV	21	ACJC9AV2L BULK	43
112956	85	AC3MBH1-AU-B	30	AC5FB	12	AC7FDZVB	21	ACJC9AVL BULK	43
112957	85	AC3MBH2-AU-B	30	AC5FB-AU	12	AC7FJ	13	ACJC9H BULK	45
52500002-734	136	AC3MBH3-AU-B	30	AC5FB BULK	12	AC7FPZ	22	ACJC9HL BULK	45
52500002-734	136	AC3MBH-AU-B	30	AC5FBJ	12	AC7M	13	ACJC9S BULK	46
52500005-732	138	AC3MBHL-AU-B	30	AC5F BULK	12	AC7MB	13	ACJC9SL BULK	46
52590060-300	138	AC3MBJ	11	AC5FDZ	20	AC7MB BULK	13	ACJC9V BULK	46
32330000-300	100	AC3M BULK	11	AC5FDZB	20	AC7MBJ	13	ACJC9VL BULK	46
Α		AC3MBV1-AU-B	31	AC5FDZB-AU	20	AC7M BULK	13	ACJC10AH BULK	43
Л		AC3MBV2-AU-B	31	AC5FDZB BULK	20	AC7MDZ	21	ACJC10AHL BULK	43
AC3F	11	AC3MBV3-AU-B	31	AC5FDZ BULK	20	AC7MDZB	21	ACJC10AV2 BULK	43
AC3F3FBW	135	AC3MBV-AU-B	30	AC5FDZV	20	AC7MDZB BULK	21	ACJC10AV2L BULK	43
AC3F3FDW	135	AC3MCP	15	AC5FDZVB	20	AC7MDZ BULK	21	ACJC10AV BULK	43
AC3F3FW	135	AC3MCP BULK	15	AC5FJ	12	AC7MDZV	21	ACJC10AVL BULK	43
AC3F3MBW	135	AC3MCPJ	15	AC5FPZ	22	AC7MDZVB	21	ACJC10H BULK	46
AC3F3MDW	135	AC3MDZ	19	AC5M	12	AC7MJ	13	ACJC10HL BULK	46
AC3F5MW	135	AC3MDZB	19	AC5M5MDW	135	AC7MP	22	ACJC10S BULK	47
AC3F8FW	136	AC3MDZB-AU	19	AC5M5MW	135	AC7MPNZ	22	ACJC10SL BULK	47
AC3FAH1-AU-PRE	28	AC3MDZB BULK	19	AC5M8FW	136	AC-BNC20A	87	ACJC10V BULK	46
AC3FAH2-AU-PRE	28	AC3MDZ BULK	19	AC5MAH-AU-B	34	AC-BNC20AJ75	87	ACJC10VL BULK	46
AC3FAH-AU-PRE	28	AC3MJ	11	AC5MAV-AU-B	34	AC-BNC20AP75	87	ACJD-BLK	119
AC3FAHL1-AU-PRE	28	AC3MM	11	AC5MB	12	AC-BNC20B	87	ACJD-BLU	119
AC3FAHL2-AU-PRE	28	AC3MMB	11	AC5MB-AU	12	AC-BNC20BJ75	87	ACJD-GRN	119
AC3FAHL-AU-PRE	28	AC3MMB-AU	11	AC5MB BULK	12	AC-BNC20BP75	87	ACJD-RED	119
AC3FAV1-AU-PRE	29	AC3MMB BULK	11	AC5MBJ	12	AC-BNC20M	87	ACJD-WHT	119
AC3FAV2-AU-PRE	29	AC3MM BULK	11	AC5M BULK	12	AC-BNC20MJ75	87	ACJD-YEL	119
AC3FAV-AU-PRE	29	AC3MMCP	15	AC5MDZ	20	AC-BNC20MP75	87	ACJM-HHDR	105
AC3FAVL1-AU-PRE	29	AC3MMCP BULK	15	AC5MDZB	20	AC-BNC40A	87	ACJM-HHOP	106
AC3FAVL2-AU-PRE	29	AC3MMCPJ	15	AC5MDZB-AU	20	AC-BNC40AJ75	87	ACJM-HHOP-1	106
AC3FAVL-AU-PRE	29	AC3MMDZ	19	AC5MDZB BULK	20	AC-BNC40AP75	87	ACJM-IH	107
AC3FB	11	AC3MMDZB	19	AC5MDZ BULK	20	AC-BNC40B	87	ACJM-IHS	107
AC3FB-AU	11	AC3MMDZB-AU	19	AC5MDZV	20	AC-BNC40BJ75	87	ACJM-MC	107
AC3FB BULK	11	AC3MMDZB BULK	19	AC5MDZVB	20	AC-BNC40BP75	87	ACJM - MH	106
AC3FBH1-AU-B	31	AC3MMDZ BULK	19	AC5MJ	12	AC-BNC40M	87	ACJM-MHD	108
AC3FBH2-AU-B	31	AC3MMDZV	19	AC5MP	22	AC-BNC40MJ75	87	ACJM-MHD985	105
AC3FBH3-AU-B	31	AC3MMDZVB	19	AC5MPNZ	22	AC-BNC40MP75	87	ACJM-MHDC*	107
AC3FBH-AU-B	31	AC3MMP	22	AC6AF	13	AC-BNC-JJ-75	86	ACJM-MHDCM	107
AC3FBHL1-AU-B	32	AC3MMPNZ	22	AC6AFB	13	AC-BNC-JJ-75B	86	ACJM-MHDE	108
AC3FBHL2-AU-B	32	AC3MP	22	AC6AFB-AU	13	AC-BNC-JJA-75T	86	ACJM-MHDEM	108
AC3FBHL3-AU-B	32	AC3MPNZ	22	AC6AFB BULK	13	ACBNCJJDW	136	ACJM-MHDM	108
AC3FBHL-AU-B	31	AC4F	12	AC6AFBJ	13	AC-BNC-JS-75	86	ACJM-MHDR	106
AC3FBJ	11	AC4FB	12	AC6AF BULK	13	AC-BNC-JS-75B	86	ACJM-MHDRM	106
AC3F BULK	11	AC4FB-AU	12	AC6AFDZ	21	AC-BNC-LABEL	87	ACJM-MHOM	106
AC3FBV1-AU-B	32	AC4FB BULK	12	AC6AFDZB	21	AC-BNC-PJ-75	86	ACJM-MHOP	106
AC3FBV2-AU-B	32	AC4FBJ	12	AC6AFDZB-AU	21	AC-BNC-PJ-75B	86	ACJM-MHOP-1	106
AC3FBV3-AU-B	32	AC4F BULK	12	AC6AFDZB BULK	21	AC-BNC-PJA-75T	86	ACJM-MHR	107
AC3FBV-AU-B	32	AC4FDZ	20	AC6AFDZ BULK	21	AC-D-ADAPTER	136	ACJM-MHS	107
AC3FBVL1-AU-B	33	AC4FDZB	20	AC6AFDZV	21	AC-GROMMET-BRN	137	ACJM-MIV-2	108
AC3FBVL2-AU-B	33	AC4FDZB-AU	20	AC6AFDZVB	21	AC-GROMMET-GRN	137	ACJM-MIV-2S	108
AC3FBVL3-AU-B	33	AC4FDZB BULK	20	AC6AFJ	13	AC-GROMMET-GRY	137	ACJM-MN-2	108
AC3FBVL-AU-B	32	AC4FDZ BULK	20	AC6AFPZ	22	AC-GROMMET-ORG	137	ACJM-MN-2S	108
AC3FCP	15	AC4FDZV	20	AC6AM	13	AC-GROMMET-RED	137	ACJM-MV-2	108
AC3FCP BULK	15	AC4FDZVB	20	AC6AMB	13	AC-GROMMET-VIO	137	ACJM-MV-2S	108
AC3FCPJ	15	AC4FJ	12	AC6AMB-AU	13	AC-GROMMET-WHT	137	ACJM-MV35-2	105
AC3FDZ	19	AC4FPZ	22	AC6AMB BULK	13	AC-GROMMET-YEL	137	ACJM-MV35-2S	105
AC3FDZB	19	AC4M	12	AC6AMBJ	13	ACJC5H BULK	44	ACJM-MVD985-2	105



		4.0.10 DUD 00	400	4.000 TH	400	AX3FB	4		
ACJM-MVD985-2S	105	ACJS-PVB-3S	108	ACPS-TN	100			EP-4-14	63
ACJM-MVS-2	109	ACJS-PVB-5	108	ACPS-TN-AU	100	AX3FB-AU	4	EP-4-14B	63
ACJM-MVS-2S	109	AC-NUT-BLU	137	ACPS-TN BULK	100	AX3FB BULK	4	EP-5-11P	62
ACJM-NH35	105	AC-NUT-BRN	137	AC-RING-BLU	138	AX3F BULK	4	EP-5-11PB	62
ACJM-NV35-2	105	AC-NUT-GRN	137	AC-RING-BLU-PK1	138	AX3M	4	EP-5-12	62
ACJM-NV35-2S	105	AC-NUT-GRY	137	AC-RING-BLU-PK2	138	AX3MB	4	EP-5-12B	62
						AX3MB-AU	4		
ACJM-PC	107	AC-NUT-J-BLK	138	AC-RING-BRN	138	AX3MB BULK	4	EP-5-13P	63
ACJM - PH	106	AC-NUT-METAL	138	AC-RING-GRN	138			EP-5-13PB	63
ACJM-PHOP	106	AC-NUT-ORG	137	AC-RING-GRY	138	AX3M BULK	4	EP-5-14	63
ACJM-PHOP-1	106	AC-NUT-RED	137	AC-RING-ORG	138	AX4F	5	EP-5-14B	63
ACJM-PHR	107	AC-NUT-VIO	137	AC-RING-RED	138	AX4FB	5	EP-6-11P	62
ACJM-PHS	107	AC-NUT-WHT	137	AC-RING-RED-PK1	138	AX4FB-AU	5	EP-6-11PB	62
				AC-RING-RED-PK2	138	AX4FB BULK	5		
ACJM-PVB-2	108	AC-NUT-YEL	137			AX4F BULK	5	EP-6-12	62
ACJM-PVB-2S	108	ACPL-CBK	118	AC-RING-VIO	138		3	EP-6-12B	62
ACJR-BLK	118	ACPL-CBL	118	AC-RING-WHT	138	AX4M	4	EP-6-13P	63
ACJR-BLU	118	ACPL-CGR	118	AC-RING-YEL	138	AX4MB	5 5	EP-6-13PB	63
ACJR-GRN	118	ACPL-CRD	118	AC-RING-YEL-PK1	138	AX4MB-AU	5	EP-6-14	63
ACJR-RED	118	ACPL-CWH	118	AC-RING-YEL-PK2	138	AX4MB BULK	5	EP-6-14B	63
ACJR-SBK	118	ACPL-CYL	118	AG3F	121	AX4M BULK	4	EP-8-11P	62
						AX5F	5		
ACJR-SBL	118	ACPM-GB	101	AG3FCCH	121		5	EP-8-11PB	62
ACJR-SGR	118	ACPM-GB-AU	101	AG3FCE	121	AX5FB	5 5	EP-8-12	62
ACJR-SRD	118	ACPM-GB BULK	101	AG3FCRV	122	AX5FB-AU	5	EP-8-12B	62
ACJR-SWH	118	ACPM-GN	101	AG3FL	121	AX5FB BULK	5	EP-8-13P	63
ACJR-SYL	118	ACPM-GN-AU	101	AG3M	121	AX5F BULK	5	EP-8-13PB	63
ACJR-WHT	118	ACPM-GN BULK	101	AG3MCC	121	AX5M	5 5	EP-8-14	63
		ACPM-KB		AG3MCCH	121	AX5MB	5		
ACJR-YEL	118		99				5	EP-8-14B	63
ACJS-HHDR	105	ACPM-KB-AU	99	AG4F	121	AX5MB-AU			
ACJS-HHOP	106	ACPM-KB BULK	99	AG4FCCH	121	AX5MB BULK	5	F	
ACJS-HHOP-1	106	ACPM-KN	99	AG4FCE	121	AX5M BULK	5		
ACJS-IH	107	ACPM-KN-AU	99	AG4FCRV	122	AX-BOOT	137	FB-00BLMA-TL7001	83
ACJS-IHS	107	ACPM-KN-BULK	99	AG4FL	121	AX-B00T-1	137	FB-00RLFJ-TC7001	83
						AX-BOOT-2	137	15 0011210 107001	00
ACJS-MC	107	ACPM-RB	102	AG4M	121	AX-B00T-2 AX-B00T-3	137	Н	
ACJS - MH	107	ACPM-RB-AU	102	AG4MCC	121			П	
ACJS-MHD	108	ACPM-RB BULK	102	AG4MCCH	121	AX-BOOT-4	137	UD 0 F	00
ACJS-MHD985	105	ACPM-RN	102	AG4MPCH	122	AX-BOOT-5	137	HP-3-F	60
ACJS-MHDC*	107	ACPM-RN-AU	102	AG5F	121	AX-BOOT-6	137	HP-3-FG	60
ACJS-MHDCM	107	ACPM-RN BULK	102	AG5FCCH	121	AX-B00T-7	137	HP-3-MD	60
ACJS-MHDE	108	ACPM-TB	100	AG5FCE	121	AX-BOOT-8	137	HP-3-MDG	60
						AX-B00T-9	137	HP-3-MDGW	60
ACJS-MHDEM	108	ACPM-TB-AU	100	AG5FCRV	122	AX-BOOT-S AX-BOOT-CLR	137	HP-3-MDW	60
ACJS-MHDM	108	ACPM-TB BULK	100	AG5FL	121			TII -O-IVID VV	00
ACJS-MHDR	106	ACPM-TN	100	AG5M	121	AX-MARK0	137	1	
ACJS-MHDRM	106	ACPM-TN-AU	100	AG5MCC	121	AX-MARK1	137	J	
ACJS-MHOM	106	ACPM-TN BULK	100	AG5MCCH	121	AX-MARK2	137	*****	
ACJS-MHOP	106	ACPR-BLK	118	AG6F	121	AX-MARK3	137	JM2P	96
		ACPR-BLU	118	AG6FCCH	121	AX-MARK4	137	JM2P-AU	96
ACJS-MHOP-1	106					AX-MARK5	137	JM2PB	96
ACJS-MHR	107	ACPR-GRN	118	AG6FCE	121		137	JM2PB-AU	96
ACJS-MHS	107	ACPR-RED	118	AG6FCRV	122	AX-MARK6		JM2PB BULK	96
ACJS-MIV-3	108	ACPR-SBK	118	AG6FL	121	AX-MARK7	137	JM2P BULK	96
ACJS-MIV-3S	108	ACPR-SBL	118	AG6M	121	AX-MARK8	137	JS3P	96
ACJS-MIV-5	108	ACPR-SGR	118	AG6MCC	121	AX-MARK9	137		
ACJS-MN-3	108	ACPR-SRD	118	AG6MCCH	121			JS3P-AU	96
				AP-4-11	64	В		JS3PB	96
ACJS-MN-3S	108	ACPR-SWH	118			_		JS3PB-AU	96
ACJS-MN-5	108	ACPR-SYL	118	AP-4-12	64	BECTVF19	82	JS3P BULK	96
ACJS-MV-3	108	ACPR-WHT	118	AP-4-13	64	BFTVF19	82		
ACJS-MV-3S	108	ACPR-YEL	118	AP-4-14	64	פוויוום		K	
ACJS-MV-5						DNO ILLINIZ 75*1	0.0		
ACJS-MV35-3	108	ACPS-GB	101	AP-4-21	64	BNC-U-LINK 75*1	86		
	108	ACPS-GB	101				86		115
	108 105	ACPS-GB ACPS-GB-AU	101 101	AP-4-22	64	BNC-U-LINK 75*1 C	86	KM2P	115
ACJS-MV35-3S	108 105 105	ACPS-GB ACPS-GB-AU ACPS-GB BULK	101 101 101	AP-4-22 AP-5-11	64 64	С		KM2P KM2P-AU	115
ACJS-MV35-3S ACJS-MV35-5	108 105 105 105	ACPS-GB ACPS-GB-AU ACPS-GB BULK ACPS-GN	101 101 101 101	AP-4-22 AP-5-11 AP-5-12	64 64 64		86 83	KM2P KM2P-AU KM2PB	115 115
ACJS-MV35-3S ACJS-MV35-5 ACJS-MVD985-3	108 105 105 105 105	ACPS-GB ACPS-GB-AU ACPS-GB BULK ACPS-GN ACPS-GN-AU	101 101 101 101 101	AP-4-22 AP-5-11 AP-5-12 AP-5-13	64 64 64 64	С		KM2P KM2P-AU	115
ACJS-MV35-3S ACJS-MV35-5 ACJS-MVD985-3 ACJS-MVD985-3S	108 105 105 105 105 105	ACPS-GB ACPS-GB-AU ACPS-GB BULK ACPS-GN ACPS-GN-AU ACPS-GN BULK	101 101 101 101 101 101	AP-4-22 AP-5-11 AP-5-12 AP-5-13 AP-5-14	64 64 64 64	C CAP-WFBFTMA1		KM2P KM2P-AU KM2PB	115 115
ACJS-MV35-3S ACJS-MV35-5 ACJS-MVD985-3	108 105 105 105 105	ACPS-GB ACPS-GB-AU ACPS-GB BULK ACPS-GN ACPS-GN-AU	101 101 101 101 101	AP-4-22 AP-5-11 AP-5-12 AP-5-13	64 64 64 64	С		KM2P KM2P-AU KM2PB KM2PB-AU KM2PB BULK	115 115 115 115
ACJS-MV35-3S ACJS-MV35-5 ACJS-MVD985-3 ACJS-MVD985-3S	108 105 105 105 105 105	ACPS-GB ACPS-GB-AU ACPS-GB BULK ACPS-GN ACPS-GN-AU ACPS-GN BULK	101 101 101 101 101 101	AP-4-22 AP-5-11 AP-5-12 AP-5-13 AP-5-14	64 64 64 64	C CAP-WFBFTMA1 E	83	KM2P KM2P-AU KM2PB KM2PB-AU KM2PB BULK KM2P BULK	115 115 115 115 115
ACJS-MV35-3S ACJS-MV35-5 ACJS-MVD985-3 ACJS-MVD985-3S ACJS-MVD985-5 ACJS-MVS-3	108 105 105 105 105 105 105 105	ACPS-GB ACPS-GB-AU ACPS-GB BULK ACPS-GN ACPS-GN-AU ACPS-GN BULK ACPS-KB	101 101 101 101 101 101 99	AP-4-22 AP-5-11 AP-5-12 AP-5-13 AP-5-14 AP-5-21 AP-5-22	64 64 64 64 64 64	C CAP-WFBFTMA1 E EP-3-11P	83 62	KM2P KM2P-AU KM2PB KM2PB-AU KM2PB BULK KM2P BULK KS3P	115 115 115 115 115 115
ACJS-MV35-3S ACJS-MV35-5 ACJS-MVD985-3 ACJS-MVD985-3S ACJS-MVD985-5 ACJS-MVS-3 ACJS-MVS-3S	108 105 105 105 105 105 105 105 109	ACPS-GB ACPS-GB-AU ACPS-GB BULK ACPS-GN ACPS-GN-AU ACPS-GN BULK ACPS-KB ACPS-KB	101 101 101 101 101 101 99 99	AP-4-22 AP-5-11 AP-5-12 AP-5-13 AP-5-14 AP-5-21 AP-5-22 AP-6-11	64 64 64 64 64 64 64	C CAP-WFBFTMA1 E EP-3-11P EP-3-11PB	83 62 62	KM2P KM2P-AU KM2PB KM2PB-AU KM2PB BULK KM2P BULK KS3P KS3P-AU	115 115 115 115 115 115 115
ACJS-MV35-3S ACJS-MV985-5 ACJS-MVD985-3S ACJS-MVD985-3S ACJS-MVS-3 ACJS-MVS-3 ACJS-MVS-3S ACJS-MVS-5	108 105 105 105 105 105 105 109 109	ACPS-GB ACPS-GB-AU ACPS-GB BULK ACPS-GN ACPS-GN-AU ACPS-GN BULK ACPS-KB ACPS-KB-AU ACPS-KB-BULK ACPS-KB-BULK	101 101 101 101 101 101 101 99 99 99	AP-4-22 AP-5-11 AP-5-12 AP-5-13 AP-5-21 AP-5-21 AP-6-11 AP-6-12	64 64 64 64 64 64 64 64	C CAP-WFBFTMA1 E EP-3-11P EP-3-11PB EP-3-12	83 62 62 62 62	KM2P KM2P-AU KM2PB-AU KM2PB BULK KM2P BULK KS3P KS3P-AU KS3PB	115 115 115 115 115 115 115 115
ACJS-MV35-3S ACJS-MV985-5 ACJS-MVD985-3 ACJS-MVD985-3S ACJS-MVS-3 ACJS-MVS-3 ACJS-MVS-3 ACJS-MVS-5 ACJS-NH35	108 105 105 105 105 105 105 109 109 109	ACPS-GB ACPS-GB-AU ACPS-GB BULK ACPS-GN ACPS-GN-AU ACPS-GN BULK ACPS-KB ACPS-KB-AU ACPS-KB BULK ACPS-KB-AU ACPS-KB BULK	101 101 101 101 101 101 101 99 99 99	AP-4-22 AP-5-11 AP-5-12 AP-5-13 AP-5-14 AP-5-21 AP-5-22 AP-6-11 AP-6-12 AP-6-13	64 64 64 64 64 64 64 64 64	C CAP-WFBFTMA1 E EP-3-11P EP-3-11PB EF-3-12 EP-3-12B	83 62 62 62 62 62	KM2P KM2P-AU KM2PB-AU KM2PB-BULK KM2P BULK KS3P KS3P-AU KS3PB KS3PB-AU	115 115 115 115 115 115 115 115 115
ACJS-MV35-3S ACJS-MV0985-3 ACJS-MVD985-3S ACJS-MVD985-3S ACJS-MVS-3 ACJS-MVS-3 ACJS-MVS-3S ACJS-MVS-5 ACJS-NH35 ACJS-NV35-3	108 105 105 105 105 105 105 109 109 109 105 105	ACPS-GB ACPS-GB-AU ACPS-GB BULK ACPS-GN ACPS-GN-AU ACPS-GN BULK ACPS-KB ACPS-KB-AU ACPS-KB-BULK ACPS-KB-AU ACPS-KN ACPS-KN ACPS-KN ACPS-KN	101 101 101 101 101 101 101 99 99 99 99	AP-4-22 AP-5-11 AP-5-12 AP-5-13 AP-5-14 AP-5-21 AP-5-22 AP-6-11 AP-6-12 AP-6-13 AP-6-14	64 64 64 64 64 64 64 64 64 64	C CAP-WFBFTMA1 E EP-3-11P EP-3-11PB EP-3-12 EP-3-12B EP-3-13P	62 62 62 62 62 63	KM2P KM2P-AU KM2PB KM2PB-AU KM2PB BULK KM2P BULK KS3P KS3P-AU KS3PB KS3PB	115 115 115 115 115 115 115 115 115
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ACJS-MV35-3S ACJS-MV0985-3 ACJS-MVD985-3S ACJS-MVD985-3S ACJS-MVS-3 ACJS-MVS-3 ACJS-MVS-3S ACJS-MVS-5 ACJS-NH35 ACJS-NV35-3	108 105 105 105 105 105 105 109 109 109 105 105 105	ACPS-GB ACPS-GB-AU ACPS-GB BULK ACPS-GN ACPS-GN-AU ACPS-GN BULK ACPS-KB ACPS-KB-AU ACPS-KB BULK ACPS-KN ACPS-KN ACPS-KN ACPS-KN-AU ACPS-KN BULK ACPS-KN BULK ACPS-KN BULK ACPS-KN BULK	101 101 101 101 101 101 99 99 99 99 99 99 102 102	AP-4-22 AP-5-11 AP-5-12 AP-5-13 AP-5-14 AP-5-21 AP-5-22 AP-6-11 AP-6-12 AP-6-13 AP-6-14 AP-6-21 AP-6-22	64 64 64 64 64 64 64 64 64 64 64	C CAP-WFBFTMA1 E EP-3-11P EP-3-11PB EP-3-12 EP-3-12B EP-3-13P	62 62 62 62 62 63 63	KM2P KM2P-AU KM2PB KM2PB-AU KM2PB BULK KM2P BULK KS3P KS3P-AU KS3PB KS3PB	115 115 115 115 115 115 115 115 115
ACJS-MV35-3S ACJS-MV0985-3 ACJS-MVD985-3S ACJS-MVD985-3S ACJS-MVS-3 ACJS-MVS-3 ACJS-MVS-5 ACJS-MVS-5 ACJS-NV35-3 ACJS-NV35-3	108 105 105 105 105 105 105 109 109 109 105 105	ACPS-GB ACPS-GB-AU ACPS-GB BULK ACPS-GN ACPS-GN-AU ACPS-GN BULK ACPS-KB ACPS-KB-AU ACPS-KB BULK ACPS-KB BULK ACPS-KN ACPS-KN ACPS-KN-AU ACPS-KN-BULK ACPS-KN-BULK	101 101 101 101 101 101 99 99 99 99 99	AP-4-22 AP-5-11 AP-5-12 AP-5-13 AP-5-14 AP-5-21 AP-6-12 AP-6-11 AP-6-12 AP-6-13 AP-6-14 AP-6-21	64 64 64 64 64 64 64 64 64 64 64	C CAP-WFBFTMA1 E EP-3-11P EP-3-11PB EP-3-12 EP-3-12B EP-3-13P EP-3-13PB EP-3-13PB	83 62 62 62 62 63 63 63	KM2P KM2P-AU KM2PB KM2PB-AU KM2PB BULK KM2P BULK KS3P KS3P-AU KS3PB KS3PB-AU KS3PB BULK KS3P BULK	115 115 115 115 115 115 115 115 115 115
ACJS-MV35-3S ACJS-MV35-5 ACJS-MVD985-3 ACJS-MVD985-3S ACJS-MVD985-5 ACJS-MVS-3 ACJS-MVS-3 ACJS-MVS-5 ACJS-MV35-3 ACJS-NV35-3 ACJS-NV35-3S ACJS-NV35-5	108 105 105 105 105 105 105 109 109 109 105 105 105	ACPS-GB ACPS-GB-AU ACPS-GB BULK ACPS-GN ACPS-GN-AU ACPS-GN BULK ACPS-KB ACPS-KB-AU ACPS-KB BULK ACPS-KN ACPS-KN ACPS-KN ACPS-KN-AU ACPS-KN BULK ACPS-KN BULK ACPS-KN BULK ACPS-KN BULK	101 101 101 101 101 101 99 99 99 99 99 99 102 102	AP-4-22 AP-5-11 AP-5-12 AP-5-13 AP-5-14 AP-5-21 AP-5-22 AP-6-11 AP-6-12 AP-6-13 AP-6-14 AP-6-21 AP-6-22	64 64 64 64 64 64 64 64 64 64 64	C CAP-WFBFTMA1 E EP-3-11P EP-3-11PB EP-3-12 EP-3-12B EP-3-13P EP-3-13P EP-3-13P EP-3-14 EP-3-14	62 62 62 62 63 63 63 63	KM2P KM2P-AU KM2PB KM2PB-AU KM2PB BULK KM2P BULK KS3P KS3P-AU KS3PB KS3PB-AU KS3PB BULK KS3P BULK	115 115 115 115 115 115 115 115 115 115
ACJS-MV35-3S ACJS-MV0985-3 ACJS-MVD985-3S ACJS-MVD985-5 ACJS-MVS-3 ACJS-MVS-3 ACJS-MVS-5 ACJS-NV35-3 ACJS-NV35-3 ACJS-NV35-3 ACJS-NV35-3 ACJS-PC ACJS-PC	108 105 105 105 105 105 105 109 109 109 105 105 105 105	ACPS-GB ACPS-GB-AU ACPS-GB BULK ACPS-GN ACPS-GN-AU ACPS-GN BULK ACPS-KB ACPS-KB-AU ACPS-KB BULK ACPS-KN ACPS-KN ACPS-KN ACPS-KN-AU ACPS-KN-BULK ACPS-RB ACPS-RB ACPS-RB ACPS-RB	101 101 101 101 101 101 101 99 99 99 99 99 102 102 102 102	AP-4-22 AP-5-11 AP-5-12 AP-5-13 AP-5-21 AP-5-22 AP-6-11 AP-6-12 AP-6-13 AP-6-14 AP-6-21 AP-6-21 AP-8-11 AP-8-12	64 64 64 64 64 64 64 64 64 64 64 64	C CAP-WFBFTMA1 E EP-3-11P EP-3-11PB EP-3-12 EP-3-12B EP-3-13P EP-3-13PB EP-3-14 EP-3-14B EP-4-11P	62 62 62 62 62 63 63 63 63 62	KM2P KM2P-AU KM2PB-AU KM2PB-BULK KM2P BULK KS3P KS3P-AU KS3PB KS3PB-AU KS3PB BULK KS3P BULK KS3PC-AU	115 115 115 115 115 115 115 115 115 115
ACJS-MV35-3S ACJS-MV0985-3 ACJS-MVD985-3S ACJS-MVD985-5 ACJS-MVS-3 ACJS-MVS-3 ACJS-MVS-5 ACJS-NV35-3 ACJS-NV35-3 ACJS-NV35-3 ACJS-NV35-5 ACJS-NV35-9 ACJS-PC ACJS-PL	108 105 105 105 105 105 105 109 109 109 105 105 105 105 107 107	ACPS-GB ACPS-GB-AU ACPS-GB BULK ACPS-GN ACPS-GN-AU ACPS-GN BULK ACPS-KB ACPS-KB-AU ACPS-KB-AU ACPS-KN ACPS-KN ACPS-KN ACPS-KN-AU ACPS-KN ACPS-RB ACPS-RB ACPS-RB-AU ACPS-RB ACPS-RB-AU ACPS-RB ACPS-RB	101 101 101 101 101 101 101 99 99 99 99 102 102 102 102 102	AP-4-22 AP-5-11 AP-5-12 AP-5-13 AP-5-21 AP-5-21 AP-6-11 AP-6-12 AP-6-13 AP-6-14 AP-6-21 AP-6-22 AP-8-11 AP-8-12 AP-8-13	64 64 64 64 64 64 64 64 64 64 64 64 64	C CAP-WFBFTMA1 E EP-3-11P EP-3-11PB EP-3-12 EP-3-12B EP-3-13P EP-3-13PB EP-3-14 EP-3-14B EP-4-11P EP-4-11PB	62 62 62 62 63 63 63 63 62 62	KM2P KM2P-AU KM2PB KM2PB-AU KM2PB BULK KM2P BULK KS3P KS3P-AU KS3PB KS3PB-AU KS3PB BULK KS3P BULK	115 115 115 115 115 115 115 115 115 115
ACJS-MV35-3S ACJS-MV985-3 ACJS-MVD985-3S ACJS-MVD985-5 ACJS-MVS-3 ACJS-MVS-3 ACJS-MVS-5 ACJS-NV35-3 ACJS-NV35-3 ACJS-NV35-3 ACJS-NV35-9 ACJS-PC ACJS-PH ACJS-PHOP-1	108 105 105 105 105 105 105 109 109 109 105 105 105 107 107 107	ACPS-GB ACPS-GB-AU ACPS-GB BULK ACPS-GN ACPS-GN-AU ACPS-GN BULK ACPS-KB ACPS-KB-BULK ACPS-KB-BULK ACPS-KN ACPS-KN ACPS-KN-AU ACPS-KN-BULK ACPS-RB ACPS-RB-BULK ACPS-RB ACPS-RB-AU ACPS-RB-BULK ACPS-RB-BULK ACPS-RN ACPS-RN	101 101 101 101 101 101 101 99 99 99 99 102 102 102 102 102 102	AP-4-22 AP-5-11 AP-5-12 AP-5-13 AP-5-21 AP-5-21 AP-6-22 AP-6-11 AP-6-12 AP-6-13 AP-6-14 AP-6-21 AP-6-22 AP-8-11 AP-8-12 AP-8-13 AP-8-14	64 64 64 64 64 64 64 64 64 64 64 64 64	C CAP-WFBFTMA1 E EP-3-11P EP-3-11PB EP-3-12 EP-3-12B EP-3-13P EP-3-13PB EP-3-14 EP-3-14B EP-4-11P EP-4-11P EP-4-11P	83 62 62 62 63 63 63 63 62 62 62	KM2P KM2P-AU KM2PB KM2PB-AU KM2PB BULK KM2P BULK KS3P KS3P-AU KS3PB KS3PB-AU KS3PB BULK KS3PB BULK KS3PB BULK	115 115 115 115 115 115 115 115 115 115
ACJS-MV35-3S ACJS-MV985-3 ACJS-MVD985-3S ACJS-MVD985-3S ACJS-MVS-3 ACJS-MVS-3 ACJS-MVS-5 ACJS-NV35-3 ACJS-NV35-3 ACJS-NV35-3 ACJS-NV35-5 ACJS-PC ACJS-PC ACJS-PHOP-1 ACJS-PHOP-1 ACJS-PHR	108 105 105 105 105 105 105 109 109 109 105 105 105 107 107	ACPS-GB ACPS-GB-AU ACPS-GB BULK ACPS-GN ACPS-GN-AU ACPS-GN BULK ACPS-KB ACPS-KB-AU ACPS-KB-BULK ACPS-KN ACPS-KN ACPS-KN-AU ACPS-KN-BULK ACPS-RB ACPS-RB-BULK ACPS-RB ACPS-RB-AU ACPS-RB BULK ACPS-RB BULK ACPS-RN ACPS-RN ACPS-RN ACPS-RN ACPS-RN ACPS-RN BULK ACPS-RN ACPS-RN BULK ACPS-RN	101 101 101 101 101 101 99 99 99 99 99 102 102 102 102 102 102	AP-4-22 AP-5-11 AP-5-12 AP-5-13 AP-5-21 AP-5-21 AP-6-22 AP-6-11 AP-6-12 AP-6-13 AP-6-14 AP-6-21 AP-6-22 AP-8-11 AP-8-11 AP-8-11 AP-8-11 AP-8-13 AP-8-14 AP-8-21	64 64 64 64 64 64 64 64 64 64 64 64 64 6	C CAP-WFBFTMA1 E EP-3-11P EP-3-11PB EP-3-12 EP-3-12B EP-3-13P EP-3-13PB EP-3-14 EP-3-14 EP-3-14 EP-3-14 EP-3-14 EP-3-14 EP-3-14 EP-3-14 EP-4-11P EP-4-11P EP-4-12 EP-4-12	83 62 62 62 63 63 63 63 62 62 62 62 62	KM2P KM2P-AU KM2PB KM2PB-AU KM2PB BULK KM2P BULK KS3P KS3P-AU KS3PB KS3PB-AU KS3PB BULK KS3PB BULK KS3PB BULK LS3PB BULK LS3PB BULK LS3PB BULK LS3PB BULK LS3PC LL LCFTV6MTNN	115 115 115 115 115 115 115 115 115 115
ACJS-MV35-3S ACJS-MV0985-3 ACJS-MVD985-3S ACJS-MVD985-3S ACJS-MVS-3 ACJS-MVS-3 ACJS-MVS-3 ACJS-NV35-3 ACJS-NV35-3 ACJS-NV35-5 ACJS-PC ACJS-PC ACJS-PHOP-1 ACJS-PHOP-1 ACJS-PHS	108 105 105 105 105 105 105 109 109 109 105 105 105 107 107 107 106 106 107	ACPS-GB ACPS-GB-AU ACPS-GB BULK ACPS-GN ACPS-GN-AU ACPS-GN-BULK ACPS-KB ACPS-KB-AU ACPS-KB-AU ACPS-KB-AU ACPS-KN ACPS-KN-AU ACPS-KN-AU ACPS-KN-BULK ACPS-RB ACPS-RB-AU ACPS-RB-AU ACPS-RB-AU ACPS-RN	101 101 101 101 101 101 99 99 99 99 99 102 102 102 102 102 102 100 100	AP-4-22 AP-5-11 AP-5-12 AP-5-13 AP-5-14 AP-5-21 AP-5-22 AP-6-11 AP-6-12 AP-6-13 AP-6-14 AP-6-21 AP-6-22 AP-8-11 AP-8-8-12 AP-8-13 AP-8-13 AP-8-13 AP-8-21 AP-8-21	64 64 64 64 64 64 64 64 64 64 64 64 64 6	C CAP-WFBFTMA1 E EP-3-11P EP-3-11PB EP-3-12 EP-3-12B EP-3-13P EP-3-13PB EP-3-14 EP-3-14B EP-4-11P EP-4-11P EP-4-11P	83 62 62 62 63 63 63 63 62 62 62	KM2P KM2P-AU KM2PB KM2PB-AU KM2PB BULK KM2P BULK KS3P KS3P-AU KS3PB KS3PB-AU KS3PB BULK KS3P BULK KS3P BULK LS3PC KS3PC-AU L LCFTV6MTNN LCFTV20NN	115 115 115 115 115 115 115 115 115 115
ACJS-MV35-3S ACJS-MV985-3 ACJS-MVD985-3S ACJS-MVD985-3S ACJS-MVS-3 ACJS-MVS-3 ACJS-MVS-5 ACJS-NV35-3 ACJS-NV35-3 ACJS-NV35-3 ACJS-NV35-5 ACJS-PC ACJS-PC ACJS-PHOP-1 ACJS-PHOP-1 ACJS-PHR	108 105 105 105 105 105 105 109 109 109 105 105 105 107 107	ACPS-GB ACPS-GB-AU ACPS-GB BULK ACPS-GN ACPS-GN-AU ACPS-GN BULK ACPS-KB ACPS-KB-AU ACPS-KB-BULK ACPS-KN ACPS-KN ACPS-KN-AU ACPS-KN-BULK ACPS-RB ACPS-RB-BULK ACPS-RB ACPS-RB-AU ACPS-RB BULK ACPS-RB BULK ACPS-RN ACPS-RN ACPS-RN ACPS-RN ACPS-RN ACPS-RN BULK ACPS-RN ACPS-RN BULK ACPS-RN	101 101 101 101 101 101 99 99 99 99 99 102 102 102 102 102 102	AP-4-22 AP-5-11 AP-5-12 AP-5-13 AP-5-21 AP-5-21 AP-6-22 AP-6-11 AP-6-12 AP-6-13 AP-6-14 AP-6-21 AP-6-22 AP-8-11 AP-8-11 AP-8-11 AP-8-11 AP-8-13 AP-8-14 AP-8-21	64 64 64 64 64 64 64 64 64 64 64 64 64 6	C CAP-WFBFTMA1 E EP-3-11P EP-3-11PB EP-3-12 EP-3-12B EP-3-13P EP-3-13PB EP-3-14 EP-3-14 EP-3-14 EP-3-14 EP-3-14 EP-3-14 EP-3-14 EP-3-14 EP-4-11P EP-4-11P EP-4-12 EP-4-12	83 62 62 62 63 63 63 63 62 62 62 62 62	KM2P KM2P-AU KM2PB KM2PB-AU KM2PB BULK KM2P BULK KS3P KS3P-AU KS3PB KS3PB-AU KS3PB BULK KS3PB BULK KS3PB BULK LS3PB BULK LS3PB BULK LS3PB BULK LS3PB BULK LS3PC LL LCFTV6MTNN	115 115 115 115 115 115 115 115 115 115



LCFTVM0	82	MP-6216-61P-C	131	RJX8FB5VGRB	75	SP-2-FSL	51	TM2RJ-AU
		MP-6511-39S	131	RJX8FB5VGREB	76	SP-2-MD	53	TM2RJ BULK
M		MP-6511-39S-C	131	RJX8FB5VGYB	75	SP-2-MDH	53	TS3P
M22520/1-01	129	MP-6511-61S	131	RJX8FB5VGYEB	76	SP-2-MDV	53	TS3P-AU
MP-738-39L	132	MP-6511-61S-C	131 131	RJX8FB5VRGB RJX8FB5VRGEB	75 76	SP-4-F	52	TS3PB TS3PB-AU
MP-738-39S	132	MP-6516-39P MP-6516-39P-C	131	RJX8FB5VRRB	76 75	SP4F4FDW SP-4-FB	136 52	TS3PB BULK
MP-738-61L	132	MP-6516-61P	131	RJX8FB5VRREB	75 76	SP-4-FBG	52	TS3PBJ
MP-738-61S	132	MP-6516-61P-C	131	RJX8FB5VRYB	75	SP-4-FBL	52	TS3PBM
MP-742-39L	132	MP-25042-13L	127	RJX8FB5VRYEB	76	SP-4-FBS	52	TS3PBM-AU
MP-742-39S	132	MP-25042-13S	127	RJX8FB5VUUB	75	SP-4-FBSG	52	TS3PBM BULK
MP-742-61L	132	MP-25042-19L	127	RJX8FB5VUUEB	76	SP-4-FBSL	52	TS3PBMJ
MP-742-61S	132	MP-25042-19S	127	RJX8FB6HB	74	SP-4-FG	52	TS3P BULK
MP-4101-13P MP-4101-13P-C	126 126	MP-25042-25L	127	RJX8FB6HEB	74	SP-4-FL	52	TS3PJ
MP-4101-19P	126	MP-25042-25S MP-25042-37L	127 127	RJX8FB6HGRB RJX8FB6HGREB	74 75	SP-4-FN SP-4-FNG	52 52	TS3PN TS3PN-AU
MP-4101-19P-C	126	MP-25042-37S	127	RJX8FB6HGYB	73 74	SP-4-FNL	52	TS3PN BULK
MP-4101-25P	126	MP-25042-54L	127	RJX8FB6HGYEB	75	SP-4-FNS	52	TS3PNJ
MP-4101-25P-C	126	MP-25042-54S	127	RJX8FB6HRGB	74	SP-4-FNSG	52	TS3R
MP-4101-37P	126	MP-25042-85L	127	RJX8FB6HRGEB	75	SP-4-FNSL	52	TS3RB
MP-4101-37P-C	126	MP-25042-85S	127	RJX8FB6HRRB	74	SP-4-FS	52	TS3RBJ
MP-4101-54P	126	MP-25042-150L	127	RJX8FB6HRREB	75	SP-4-FSG	52	TS3RBJ-AU
MP-4101-54P-C MP-4101-85P	126 126	MP-25042-150S	127	RJX8FB6HRYB	74	SP-4-FSL	52	TS3RBJ BULK
MP-4101-85P-C	126	MP-25043-13L MP-25043-13S	128 128	RJX8FB6HRYEB	75 74	SP-4-MC	54	TS3RJ
MP-4101-150P	126	MP-25043-19L	128	RJX8FB6HUUB RJX8FB6HUUEB	74 75	SP-4-MD SP-4-MD-8	53 53	TS3RJ-AU TS3RJ BULK
MP-4101-150P-C	126	MP-25043-19S	128	RJX8FB6VB	75 75	SP-4-MDH	53	100N0 DOLK
MP-4102-13P	127	MP-25043-25L	128	RJX8FB6VEB	75	SP-4-MDHT	54	
MP-4102-13P-C	127	MP-25043-25S	128	RJX8FB6VGRB	75	SP-4-MDHT-8	54	
MP-4102-19P	127	MP-25043-37L	128	RJX8FB6VGREB	76	SP-4-MDT	53	
MP-4102-19P-C	127	MP-25043-37S	128	RJX8FB6VGYB	75	SP-4-MDV	54	
MP-4102-25P MP-4102-25P-C	127 127	MP-25043-54L	128	RJX8FB6VGYEB	76	SP-4-MDV-2	54	
MP-4102-25P-0 MP-4102-37P	127	MP-25043-54S	128	RJX8FB6VRGB	75 76	SP-4-MDVT-8	54	
MP-4102-37P-C	127	MP-25043-85L MP-25043-85S	128 128	RJX8FB6VRGEB RJX8FB6VRRB	76 75	T		
MP-4102-54P	127	MP-25043-150L	128	RJX8FB6VRREB	76	1		
MP-4102-54P-C	127	MP-25043-150S	128	RJX8FB6VRYB	75	T2860	136	
MP-4102-85P	127	MP-108300	129	RJX8FB6VRYEB	76	T2880	136	
MP-4102-85P-C	127	MP-108400	129	RJX8FB6VUUB	75	T2890	136	
MP-4102-150P	127	MP-108500	129	RJX8FB6VUUEB	76	TH29-1	129	
MP-4102-150P-C MP-4106-13S	127 126	MP-108600	129	RJX8FD3HB	78	TM1P TM1P-AU	94 94	
MP-4106-13S-C	126	MP-EXT-16/18	129	RJX8FD3VB	78 70	TM1PB	94	
MP-4106-19S	126	MP-GUIDE-16 MP-GUIDE-18	129 129	RJX8FD5HB RJX8FD5I	78 78	TM1PB-AU	94	
MP-4106-19S-C	126	MP-INS-16	129	RJX8FD5T	78	TM1PB BULK	94	
MP-4106-25S	126	MP-INS-18	129	RJX8FD5VB	78	TM1PBJ	94	
MP-4106-25S-C	126			RJX8FD6HB	78	TM1P BULK	94	
MP-4106-37S	126	R		RJX8FD6I	78	TM1PJ	94	
MP-4106-37S-C MP-4106-54S	126 126	RJD1112-0050	68	RJX8FD6VB	78	TM1RBJ TM1RBJ-AU	94 94	
MP-4106-54S-C	126	RJD1112-0050 RJD1212-0050	68	RJX8FD5110	78 70	TM1RBJ BULK	94 94	
MP-4106-85S	126	RJX8FA3HB	74	RJX8FD6110 RJX8M	78 71	TM1RJ	94	
MP-4106-85S-C	126	RJX8FA3VB	75	RJX8MB	71	TM1RJ-AU	94	
MP-4106-150S	126	RJX8FA5VB	75	RJX8MB BULK	71	TM1RJ BULK	94	
MP-4106-150S-C	126	RJX8FA6HB	74	RJX8M BULK	71	TM2P	92	
MP-4164-13S	127	RJX8FA6VB	75	_		TM2P-AU	92	
MP-4164-13S-C MP-4164-19S	127	RJX8FB3HB RJX8FB3HEB	74 74	S		TM2PB TM2PB-AU	92 92	
MP-4164-19S-C	127 127	RJX8FB3VB	74 75	SP-2-F	51	TM2PB BULK	92 92	
MP-4164-25S	127	RJX8FB3VEB	75 75	SP2F2FDW	136	TM2PBJ	92	
MP-4164-25S-C	127	RJX8FB5HB	74	SP-2-FB	51	TM2PBM	93	
MP-4164-37S	127	RJX8FB5HEB	74	SP-2-FBG	51	TM2PBM-AU	93	
MP-4164-37S-C	127	RJX8FB5HGRB	74	SP-2-FBL	51	TM2PBM BULK	93	
MP-4164-54S	127	RJX8FB5HGREB	75	SP-2-FBS	51	TM2PBMJ	93	
MP-4164-54S-C	127	RJX8FB5HGYB	74 75	SP-2-FBSG	51	TM2P BULK	92	
MP-4164-85S MP-4164-85S-C	127 127	RJX8FB5HGYEB RJX8FB5HRGB	75 74	SP-2-FBSL SP-2-FG	51 51	TM2PJ TM2PN	92 93	
MP-4164-150S	127	RJX8FB5HRGEB	74 75	SP-2-FL	51	TM2PN-AU	93	
MP-4164-150S-C	127	RJX8FB5HRRB	74	SP-2-FN	51	TM2PN BULK	93	
MP-6211-39S	131	RJX8FB5HRREB	75	SP-2-FNG	51	TM2PNJ	93	
MP-6211-39S-C	131	RJX8FB5HRYB	74	SP-2-FNL	51	TM2R	93	
MP-6211-61S	131	RJX8FB5HRYEB	75	SP-2-FNS	51	TM2RB	93	
MP-6211-61S-C	131	RJX8FB5HUUB	74 75	SP-2-FNSG	51	TM2RBJ	93	
MP-6216-39P MP-6216-39P-C	131 131	RJX8FB5HUUEB RJX8FB5VB	75 75	SP-2-FNSL SP-2-FS	51 51	TM2RBJ-AU TM2RBJ BULK	93 93	
MP-6216-61P	131	RJX8FB5VEB	75 75	SP-2-FSG	51 51	TM2RJ	93	
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### 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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