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**SUB CATEGORY** 

METAL SHELL TYPE - SOLDER



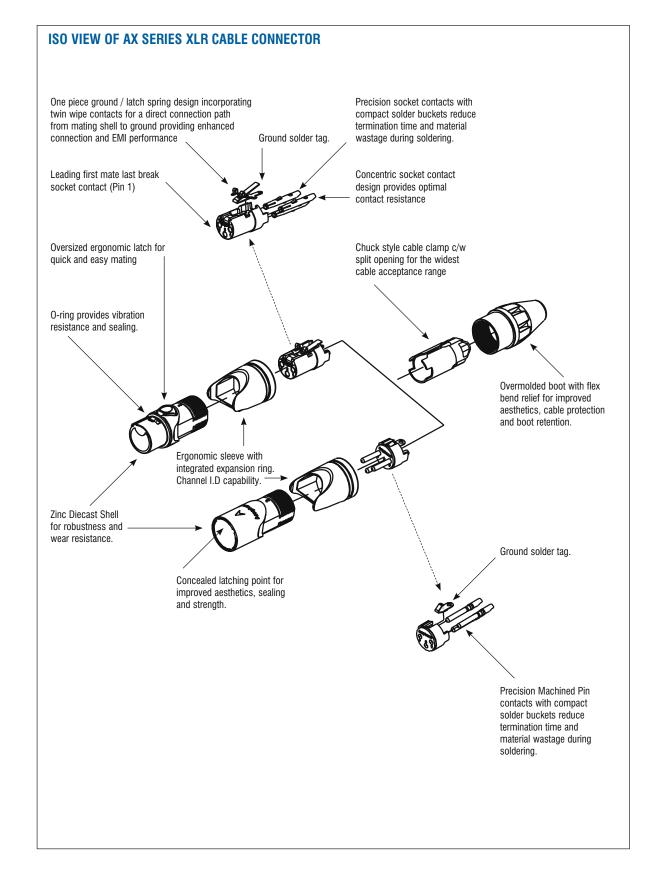
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www.amphenolaudio.com



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

### **Features**

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

### **Options**

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

#### **Ordering Codes**

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

### AX SERIES XLR CABLE CONNECTORS



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

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

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



#### Features:

- Unique Australian designed shell and housing.
- Ergonomic stylish sleeve design for improved grip.
- Oversized latch lever preserves your thumb.
- Leading first mate last break pin 1 on socket connectors.
- Chuck style cable clamp to suit 3mm 8mm (0.118" 0.314") cable 0.D. with integrated split to allow inclusion after soldering.
- Overmolded cable support boot.
- New socket contact design for improved contact resistance.
- Precision machined pin contacts as standard.
- Compact solder buckets to reduce soldering time and wastage.
- Zinc diecast shell housing with Satin nickel or Matt black finish.
- Available in 3,4 and 5 contact arrangements.

#### Options:

- Coloured I.D sleeves.
- Clear I.D Sleeve for connector marking.
- Satin nickel or Matt black shell finish.
- Single or Bulk packaging.

#### Part Number Breakdown: Page 6

#### **Specifications: Page 7**

Assembly Instructions: PI538\*

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	71 - 74 [2.80-2.90*]	XLR 3 pole male Machined contacts	Standard	AX3M
- Star		Nickel Finish	Gold Plated Contacts	AX3M-AU
	erection and the second s		Bulk Pack	AX3M BULK
	71 - 74 [2.80-2.90*]	XLR 3 pole male Machined contacts	Standard	AX3MB
all the		Black Finish	Gold Plated Contacts	AX3MB-AU
	19:6		Bulk Pack	AX3MB BULK
	71 - 74 [2.60-2.90"]	XLR 3 pole female Stamped contacts	Standard	AX3F
		Nickel Finish	Gold Plated Contacts	AX3F-AU
			Bulk Pack	AX3F BULK
		XLR 3 pole female Stamped contacts	Standard	AX3FB
St us		Black Finish	Gold Plated Contacts	AX3FB-AU
			Bulk Pack	AX3FB BULK
	71 - 74 [2.80-2.90"]	XLR 4 pole male Machined contacts	Standard	AX4M
		Nickel Finish	Gold Plated Contacts	AX4M-AU
			Bulk Pack	AX4M BULK

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

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

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PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			XLR 4 pole male Machined contacts	Standard	AX4MB
	[1447] [1747] [1		Black Finish	Gold Plated Contacts	AX4MB-AU
	10			Bulk Pack	AX4MB BULK
		80-2.90"]	XLR 4 pole female Machined contacts	Standard	AX4F
Carton and Carton			Nickel Finish	Gold Plated Contacts	AX4F-AU
				Bulk Pack	AX4F BULK
		80-2.90"]	XLR 4 pole female Machined contacts	Standard	AX4FB
Same			Black Finish	Gold Plated Contacts	AX4FB-AU
		B		Bulk Pack	AX4FB BULK
-	71 - 74 [2.80-2.90"]	XLR 5 pole male Machined contacts	Standard	AX5M	
- frat		Nickel Finish	Gold Plated Contacts	AX5M-AU	
			Bulk Pack	AX5M BULK	
	71 - 74 [2.80-2.90"]	XLR 5 pole male Machined contacts	Standard	AX5MB	
		Black Finish	Gold Plated Contacts	AX5MB-AU	
			Bulk Pack	AX5MB BULK	
		XLR 5 pole female Machined contacts	Standard	AX5F	
- Change - B			Nickel Finish	Gold Plated Contacts	AX5F-AU
			Bulk Pack	AX5F BULK	
	<u></u>	XLR 5 pole female Machined contacts	Standard	AX5FB	
			Black Finish	Gold Plated Contacts	AX5FB-AU
				Bulk Pack	AX5FB BULK

AX SERIES XLR CABLE CONNECTORS

## Amphenol

**METAL SHELL TYPE - SOLDER** 

## 

## PART NUMBER BREAKDOWN

METAL SHELL TYPE - SOLDER

SERIES REFET COMPETINGUES
AX 3 M
G . AX3MB2-AU BULK AX (Series Prefix), 3 contacts, Male, Black Finish, 2 (Red Sleeve)- AU (Gold Plated Contacts), Bulk Packaged.
ERIES PREFIX AX = Series Prefix
DNTACT LAYOUTS 3 = 3 Contacts
4 = 4 Contacts
5 = 5 Contacts
ENDER F — Female Socket Contacts
M = Male Pin Contacts
HELL FINISH Blank = Nickel Plated Finish
B = Black Finish
LEEVE OPTION 1 = Brown
2 = Red
3 = Orange
4 = Yellow
5 = Green
6 = Blue
7 = Violet
8 — Grey
9 = White
C = Clear
CONTACT PLATING Blank — Standard Plating (Silver or Tin - Refer to Standard Data.)
AU = Gold Plated
PACKAGING Blank — Individual Bags
BULK = Bulk Packed

**STANDARD DATA** 

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

		VALUE						
GENERAL Characteristics	Number of contacts	3	4	5				
UNANAU ENISTIUS	AC Series Contact Arrangements (Front view of pin inserts)							
	Termination		SOLDER					
	Max. Wire Gauge - Stranded wire: Solder	14AWG	16AWG	18AWG				
	Flammability rating of insulator plastics and housings		UL94V-0					
	Environmental	Com	plies with RoHS Directive 2002/	95/EC				
ELECTRICAL Characteristics	Service Voltage RMS		133V <sup>1)</sup>					
CHARACIERISIICS	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						
UTATAUTETIUSTUS	Operating Temperature	-25°C to +75°C (-13°F to -167°F)						
MECHANICAL	Insertion and Withdrawal force		≥10N - ≤30N					
CHARACTERISTICS	Weight <sup>2)</sup>	31g (0.068lb)	33g (0.073lb)	33g (0.073lb)				
	Typical Cable retention force	22Kg to 44Kg (50lb t	to 100lb) - Dependent on cable	material and diameter.				
	Cable O.D. range	:	3mm to 8mm (0.118" to 0.314	")				
	Mechanical Operations		1000 mating cycles					
MATERIALS	Connector shell - Metal Shell finish		Diecast Zinc Alloy Satin nickel or Black					
	Insulators	UL94V-0 PA66, 30% Glass Filled						
	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)						

Rev 2 - 11/2009

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

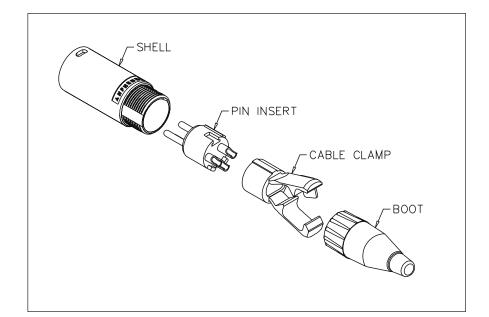
<sup>2)</sup> Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.



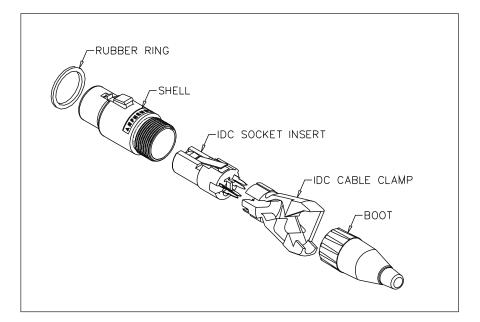


### **ISO VIEW OF AC3MM**





### **ISO VIEW OF AC3FI**



### **AMPHENOL AUSTRALIA WEBSITE**

www.amphenolaudio.com

## AMPHENOL WORLD HEADQUARTERS WEBSITE www.amphenol.com

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





Amphenol Australia have been manufacturing and designing innovative XLR connectors since 1955 and were the first to offer the cost saving Insulation Displacement Contact (IDC) in an XLR connector. The IDC connector is ideal for Original Equipment Manufacturers and end users alike and offers an alternative to our standard solder connector. The AC series cable connector range complies with IEC268-12 and AES 14-1992 standards. CSA File Number 68598.

#### **Features**

- AC series XLR connectors feature the unique Australian design and patented "Jaws" cable retention system for both standard Solder connectors and the Insulation Displacement Contact (IDC) connectors.
- A leading first mate last break socket contact is standard on all female connectors (Pin 1).
- The "Jaws" cable retention system provides up to 44kg (100lb) of strain.
- Solderless IDC technology offers savings of up to 60% in termination time.
- The AC series connector can be quickly and easily assembled without screws – by hand or portable termination tool. (Part number T2860)
- Available in 3, 4, 5, 6A and 7 contact arrangements.
- Compatible with all other XLR brands.

### **Options**

- · Solder Bucket termination
- Insulation Displacement Contact (IDC)
- Thermoplastic shell
- Zinc Diecast shell Satin Nickel Finish
- Zinc Diecast shell Black Polyester Finish
- Gold, Silver or Tin Plated contacts
- Bulk Style Packaging
- Single Bag packs
   Dracician machine
- Precision machined contacts
- Cost effective stamped contacts on 3 pole

### **Options** (Cont'd)

- Standard Jaws cable clamp, Cable 0.D 3mm to 6.5mm (0.118" to 0.255")
- Large Jaws cable clamp, Cable 0.D 6.5mm to 8mm (0.255" to 0.314")
- IDC Jaws cable clamp,
- Max. Cable 0.D 5.85mm (0.23") • Metal Boots / Backshells
- · 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")

## AC SERIES XLR CABLE CONNECTORS



### **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.



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



### Features:

- Zinc Diecast Shell.
- Solder Bucket connections.
   " Jours" Cable Detertion Cust
- "Jaws" Cable Retention System.
- Contact layouts in 3, 4, 5, 6A and 7.
  Precision machined or Stamped contacts.
- Precision machined or stamped contacts.
  Leading first mate last break socket contact.
- Quick and easy assembly without screws by hand or portable termination tool. (Part number T2860.)
- **Options:** Stamped Contacts (3 contact only), Gold plated contacts, Large or Small Jaws Cable Clamp, Black Finish Shell, Bulk Pack, Coloured Boots / Backshells

#### Part Number Breakdown: Page 13

**Specifications: Page 20-21** 

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
~	000.000073		XLR 3 pole male,	Standard	AC3MM
			Machined contacts, Nickel Finish,	Gold Plated Contacts	AC3MM-AU
	ø19.0 [0.748″] ()		Jaws cable clamp	Large Cable Clamp	AC3MMJ
	<u>v</u>			Bulk Pack	AC3MM BULK
	H		XLR 3 pole male, Machined contacts,	Standard	AC3MMB
and the second	A		Black Finish, Jaws cable clamp	Gold Plated Contacts	AC3MMB-AU
	ø19.0 [0.748″] 0		Jaws cable clamp	Large Cable Clamp	AC3MMBJ
	¥			Bulk Pack	AC3MMB BULK
-	ka		XLR 3 pole male, Stamped contacts,	Standard	AC3M
			Nickel Finish, Jaws cable clamp	Gold Plated Contacts	AC3M-AU
		Jaws cable clamp	Large Cable Clamp	AC3MJ	
~				Bulk Pack	AC3M BULK
-	¢19.0 [0.748'] 0	XLR 3 pole male, Stamped contacts,	Standard	AC3MB	
		Black Finish, Jaws cable clamp	Gold Plated Contacts	AC3MB-AU	
			Large Cable Clamp	AC3MBJ	
•			Bulk Pack	AC3MB BULK	
	A	—82.0 [3.228″]———————————————————————————————————	XLR 3 pole female, Stamped contacts,	Standard	AC3F
			Nickel Finish, Jaws cable clamp	Gold Plated Contacts	AC3F-AU
	ø19.0 [.748″]		Jaws cable clamp	Large Cable Clamp	AC3FJ
				Bulk Pack	AC3F BULK
		—82.0 [3.228″]———————————————————————————————————	XLR 3 pole female, Stamped contacts,	Standard	AC3FB
and the second		Black Finish, Jaws cable clamp	Gold Plated Contacts	AC3FB-AU	
	ø19.0 [.748"]			Large Cable Clamp	AC3FBJ
				Bulk Pack	AC3FB BULK

10

AC SERIES XLR CABLE CONNECTORS

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩		XLR 4 pole male, Machined contacts,	Standard	AC4M
			Nickel Finish, Jaws cable clamp	Gold Plated Contacts	AC4M-AU
	ø19.0 [0.748″] 0		Jaws cable clamp	Large Cable Clamp	AC4MJ
	¥			Bulk Pack	AC4M BULK
	L		XLR 4 pole male, Machined contacts,	Standard	AC4MB
			Black Finish, Jaws cable clamp	Gold Plated Contacts	AC4MB-AU
	ø19.0 [0.748″] 0			Large Cable Clamp	AC4MBJ
	¥			Bulk Pack	AC4MB BULK
		-82.0 [3.228″]	XLR 4 pole female, Machined contacts,	Standard	AC4F
			Nickel Finish, Jaws cable clamp	Gold Plated Contacts	AC4F-AU
	ø19.0 [.748″]		Jaws cable clamp	Large Cable Clamp	AC4FJ
				Bulk Pack	AC4F BULK
	82.0 [3.228*]	XLR 4 pole female, Machined contacts,	Standard	AC4FB	
		Black Finish, Jaws cable clamp	Gold Plated Contacts	AC4FB-AU	
			Large Cable Clamp	AC4FBJ	
				Bulk Pack	AC4FB BULK
-	82.0 [3.228'] ø19.0 [0.748'] ¢	XLR 5 pole male, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC5M	
			Gold Plated Contacts	AC5M-AU	
			Large Cable Clamp	AC5MJ	
			Bulk Pack	AC5M BULK	
			XLR 5 pole male, Machined contacts,	Standard	AC5MB
	¢19.0 [0.748*] 0	Black Finish, Jaws cable clamp	Gold Plated Contacts	AC5MB-AU	
		Jaws cable clamp	Large Cable Clamp	AC5MBJ	
-				Bulk Pack	AC5MB BULK
		-82.0 [3.228"]	XLR 5 pole female, Machined contacts,	Standard	AC5F
			Nickel Finish, Jaws cable clamp	Gold Plated Contacts	AC5F-AU
	ø19.0 [.748"]			Large Cable Clamp	AC5FJ
				Bulk Pack	AC5F BULK
		-820 [3228*1	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
a de la dela dela dela dela dela dela de	<u> </u>			Bulk Pack	AC5FB BULK

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

AC SERIES XLR CABLE CONNECTORS

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	₩		XLR 6A pole male, Machined contacts,	Standard	AC6AM
	A		Nickel Finish, Jaws cable clamp	Gold Plated Contacts	AC6AM-AU
	ø19.0 [0.748″] ()		Jawa Cable Clamp	Large Cable Clamp	AC6AMJ
	¥			Bulk Pack	AC6AM BULK
	2		XLR 6A pole male, Machined contacts,	Standard	AC6AMB
	A		Black Finish, Jaws cable clamp	Gold Plated Contacts	AC6AMB-AU
	ø19.0 [0.748″] ()		ound ouble olump	Large Cable Clamp	AC6AMBJ
	¥			Bulk Pack	AC6AMB BULK
	4		XLR 6A pole female, Machined contacts,	Standard	AC6AF
			Nickel Finish, Jaws cable clamp	Gold Plated Contacts	AC6AF-AU
	ø19.0 [.748″]		Saws Subic Stamp	Large Cable Clamp	AC6AFJ
				Bulk Pack	AC6AF BULK
	Ø19.0 [.748']		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	
	ø19.0 [0.748*] 0	XLR 7 pole male, Gold plated	Standard	AC7M	
		Machined contacts, Nickel Finish,			
		Jaws cable clamp	Large Cable Clamp	AC7MJ	
				Bulk Pack	AC7M BULK
	┝━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━	XLR 7 pole male, Gold plated	Standard	AC7MB	
	410.0		Machined contacts, Black Finish,		
	¢19.0 [0.748"] 0	Jaws cable clamp	Large Cable Clamp	AC7MBJ	
				Bulk Pack	AC7MB BULK
			XLR 7 pole female, Gold plated	Standard	AC7F
			Machined contacts, Nickel Finish,		
		Jaws cable clamp	Large Cable Clamp	AC7FJ	
			Bulk Pack	AC7F BULK	
			XLR 7 pole female, Gold plated Machined contacts,	Standard	AC7FB
	ø19.0 [.748"]		Black Finish, Jaws cable clamp	Large Cable Clamp	AC7FBJ
a der			Bulk Pack	AC7FB BULK	





**METAL SHELL TYPE - SOLDER** 

## Amphenol

## PART NUMBER BREAKDOWN

METAL SHELL TYPE - SOLDER

					to	.40	s <sup>5</sup>				A	atthe
				sents	PREFIX	ACT LA.	A CONTR	ji Shfi	L FINSH	ABLECLA	ONTAC	TPLATING
				AC	3	M	М	B		J -	AU	BULK
E. G . AC3MMBJ-AU BULL AC (Series Prefix), 3 J (Large Jaws),- AU	3 contacts	s, Male, Machin ted Contacts), I	ed Contacts, Black Polyester Finish, 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	Blank	=	Stamped Contacts									
	M	=	Machined Contacts									
	G	=	Stamped Contacts, Ground Tag									
	MG	=	Machined Contacts, Ground Tag (Applicable 3 male pin contacts, option M and MG only)									
	NOTE:	4 - 7 contact co grounding as sta	nnectors have machined contacts and andard. They are not available in stamped contacts.									
SHELL FINISH	Blank	=	Nickel Plated Finish									
	В	=	Black Polyester Finish									
CABLE CLAMP	Blank	=	Standard Jaws 3 mm - 6.5 mm cable 0.D. (0.118" to 0.255")									
	J	=	Large Jaws 6.5mm - 8mm cable O.D. (0.255" to 0.314")									
CONTACT PLATING	Blank	=	Standard Plating ( Silver or Tin - Refer to Standard Data.)									
		_	NOTE: 7 Contact is gold plated as standard.									
DACKACINO	AU		Gold Plated									
PACKAGING	Blank	=	Individual Bags									
	BULK	=	Bulk Packed									]

Note: All AC Series Connectors are available with optional colour coded boot / backshell. Refer to page 80 and simply add colour to end of part number. Example: AC3MM - RED



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



### Features:

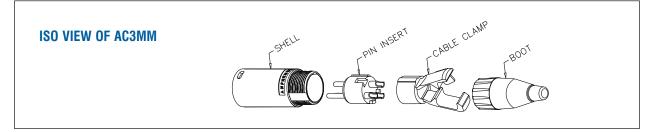
- Thermoplastic Shell.
- Solder Bucket Connections.
- "Jaws" Cable Retention System.
- Stamped or Machined Contacts.
- Leading first mate last break socket contact.
- Quick and easy assembly without screws by hand or portable termination tool. (Part number T2860.)

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

### Specifications: Page 20-21

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	≈	XLR 3 pole male, Machined contacts, Thermoplastic shell,	Standard	AC3MMCP
	Ø19.0 [0.748']	Jaws cable clamp	Gold Plated Contacts	AC3MMCP-AU
			Large Cable Clamp	AC3MMCPJ
			Bulk Pack	AC3MMCP BULK
	82.0 [3.228'] ø19.0 [0.748']	XLR 3 pole male, Stamped contacts, Thermoplastic shell,	Standard	AC3MCP
		Jaws cable clamp	Gold Plated Contacts	AC3MCP-AU
3			Large Cable Clamp	AC3MCPJ
			Bulk Pack	AC3MCP BULK
		XLR 3 pole female, Stamped contacts, Thermoplastic shell,	Standard	AC3FCP
	Ø19.0 [0.748']	Jaws cable clamp	Gold Plated Contacts	AC3FCP-AU
			Large Cable Clamp	AC3FCPJ
			Bulk Pack	AC3FCP BULK

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



### **RIGHT ANGLE TYPE**



### Features:

- XLR 90° right angle
- Metal or Thermoplastic connector shell
- Thermoplastic  $90^{\rm o}$  right angle backshell
- Solder bucket connections
- "Jaws" Cable Retention System
- Contact Layouts in 3, 4, 5, 6A and 7
- Precision machined pin contacts
- · Leading first mate last break socket contact

#### Specifications: Page 20-21 Assembly Tooling: Page 79

NOTE\*Connector assembly requires the use of assembly tool T2880. Please refer to assembly instruction PI540\* for details. The connector is non-servicable once assembled.

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	64		XLR 90° right angle female,	3 pole	AC3FR
			Metal shell, Nickel Finish,	4 pole	AC4FR
		75	Jaws cable clamp	5 pole	AC5FR
			6A pole	AC6AFR	
	Ψ			7 pole	AC7FR
	<del>م</del> ـــــــــــ64		XLR 90° right angle male,	3 pole	AC3MMR
		Metal shell, Nickel Finish, Jaws cable clamp	4 pole	AC4MR	
			5 pole	AC5MR	
			6A pole	AC6AMR	
	\ \ \ \ \ \ \ \	2		7 pole	AC7MR

\*PI540 is available for download at www.amphenolaudio.com



**METAL SHELL TYPE - IDC** 



The Insulation Displacement Contact (IDC) connector is ideal for Original Equipment Manufacturers and end users alike and offers an alternative to our standard solder connector. Connectors can be quickly and easily assembled without screws or a soldering iron – by hand or portable termination tool. (Part number T2860.)

Labour savings of up to 60% in termination time can be achieved. **Recommended Cable Dimensions: Page 21 Features:** 

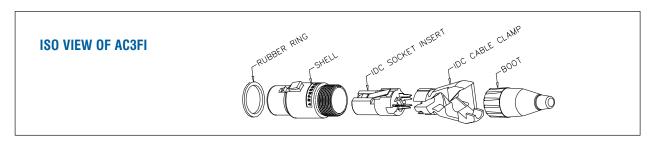
- Zinc Diecast Shell Available in 3 Contact only.
- Insulation Displacement Contacts (IDC Solderless).
- "Jaws" Cable Retention System.
- · Leading first mate last break socket contact.

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

Part Number Breakdown: Page 17 Specifications: Page 20-21 Assembly Instructions: Page 19

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			XLR 3 pole male, IDC contacts, Nickel Finish, IDC Jaws cable clamp	Standard	AC3MI
	ø19.0 [0.748″] 0			Gold Plated Contacts	AC3MI-AU
	¥L			Bulk Pack	AC3MI BULK
			XLR 3 pole male, IDC contacts, Black Finish, IDC Jaws cable clamp	Standard	AC3MIB
0	¢19.0 [0.748'] ¢	IDC Jaws cable clamp	Gold Plated Contacts	AC3MIB-AU	
			Bulk Pack	AC3MIB BULK	
	\$2.0 [3.228'] \$19.0 [.748']	XLR 3 pole female, IDC contacts, Nickel Finish, IDC Jaws cable clamp	Standard	AC3FI	
		DC Jaws cable clamp	Gold Plated Contacts	AC3FI-AU	
			Bulk Pack	AC3FI BULK	
	Ø19.0 [.7.48"]	XLR 3 pole female, IDC contacts, Black Finish, IDC Jaws cable clamp	Standard	AC3FIB	
			Gold Plated Contacts	AC3FIB-AU	
				Bulk Pack	AC3FIB BULK

Note: Amphenol can not guarantee the termination performance unless the recommended cable dimensions listed on page 21 are followed.





**METAL SHELL TYPE - IDC** 

## Amphenol

## PART NUMBER BREAKDOWN

METAL SHELL TYPE - IDC

			ntacts, Black Polyester Finish,
- AU (Gold Plated C SERIES PREFIX	ontacts), Bul	k Packaged.	Series Prefix
CONTACT LAYOUT	3		3 Contact only
GENDER	F	=	Female Socket Contacts
	М	=	Male Pin Contacts
ERMINATION Method	I	=	IDC Contacts
SHELL FINISH	Blank	=	Nickel Plated Finish
	В	=	Black Polyester Finish
CONTACT PLATING	Blank	=	Standard Plating (Silver or Tin - Refer to Standard Data.)
	AU	=	Gold Plated
PACKAGING	Blank	=	Individual Bags
	BULK	=	Bulk Packed

Note: All AC Series Connectors are available with optional colour coded boot / backshell. Refer to page 80 and simply add colour to end of part number. Example: AC3MI - RED



**THERMOPLASTIC SHELL TYPE - IDC** 



The Insulation Displacement Contact (IDC) connector is ideal for Original Equipment Manufacturers and end users alike and offers an alternative to our standard solder connector. Connectors can be quickly and easily assembled without screws or a soldering iron – by hand or portable termination tool. Labour savings of up to 60% in termination time can be achieved.

#### Recommended Cable Dimensions: Page 21 Features:

- Thermoplastic Shell
   Available 3 Contact only.
- Insulation Displacement Contacts (IDC Solderless).
- "Jaws" Cable Retention System.
- Leading first mate last break socket contact.
   Quick and easy assembly without screws by hand or portable termination tool. (Part number T2860.)

Options: Gold plated contacts, Bulk Pack, Coloured Boots / Backshells Part Number Breakdown: Page 18 Specifications: Page 20-21 Assembly Instructions: Page 19

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

Note: Amphenol can not guarantee the termination performance unless the recommended cable dimensions listed on page 21 are followed.

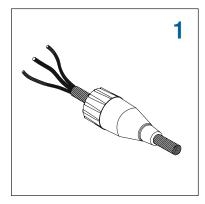
#### TERMINION NETHOD CONTRE'LA YOUTS CONTRET PLATING SHELMATERIAL SERIES PREIN PART NUMBER BREAKDOWN PACKAGING IDC THERMOPLASTIC SHELL TYPE E. G. AC3MCPI-AU BULK AC 3 Μ CP AU BULK Т AC (Series Prefix), 3 contacts, Male, CP (Thermoplastic Shell), IDC Contacts, - AU (Gold Plated Contacts), Bulk Packaged. SERIES PREFIX AC Series Prefix = **CONTACT LAYOUT** 3 = 3 Contacts only GENDER F = Female Socket Contacts Μ Male Pin Contacts = SHELL MATERIAL CP Thermoplastic Shell = TERMINATION T. **IDC Contacts** = METHOD CONTACT PLATING Standard Plating ( Silver or Tin -Blank = Refer to Standard Data.) AU Gold Plated = Blank = Individual Bags PACKAGING **BULK** Bulk Packed = Note: All AC Series Connectors are available with optional colour coded boot / backshell. Refer to page 80 and simply add colour to end of part number. Example: AC3MCPI - RED



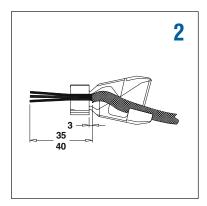


## AC IDC SERIES CABLE ASSEMBLY INSTRUCTIONS

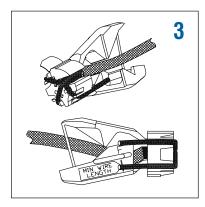




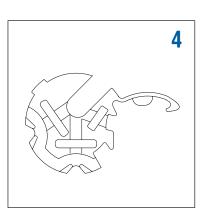
Push the cable through the boot assembly and strip the cable back 35 to 40 mm. Twist the shield wire.



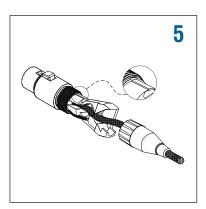
Fit the cable into the 'Jaws' cable clamp ensuring that the cable is pushed up to the neck of the clamp within 3mm.



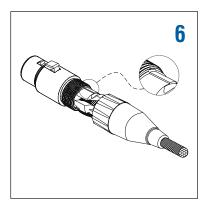
Pull back the conductors into their individual wire guidetracks. Note: Two spring fingers in the clamp will hold the conductors in position during subsequent operations. The ends of the two insulated wires must be on or past the minimum wire length mark.



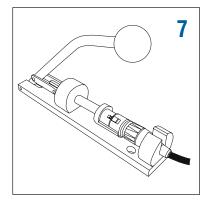
For ground protection the twisted shield wire is clipped in place with the ground protect flap.



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



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



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

## **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)						
	Termination	IDC / SOLDER	SOLDER	SOLDER	SOLDER	SOLDER	
	Max. Wire Gauge - Stranded wire:						
	IDC	24AWG	N/A	N/A	N/A	N/A	
	Solder	14AWG	16AWG	18AWG	18AWG	20AWG	
	Flammability rating of insulator plastics and housings			UL94V-0			
	Environmental		Complies w	vith RoHS Directive	2002/95/EC		
ELECTRICAL Characteristics	Service Voltage RMS			133V <sup>1)</sup>			
	Test Voltage AC RMS	C RMS 1400V					
	Current carrying capacity: IDC	1A	N/A	N/A	N/A	N/A	
	Solder	15A	10A	7.5A	7.5A	5A	
	Typical Contact Resistance ≤3mΩ						
	Insulation Resistance	≥1GΩ					
CLIMATIC	Protection Class			IP40			
CHARACTERISTICS	Operating Temperature		-25°C t	o +75°C (-13°F to	) -167°F)		
MECHANICAL	Insertion and Withdrawal force			≥10N - ≤30N			
CHARACTERISTICS	Weight - Metal <sup>2)</sup>	36g	37g	38g	38g	38g	
		(0.080lb)	(0.081lb)	(0.083lb)	(0.083lb)	(0.083lb)	
	Weight - Thermoplastic 2)	18g	19g	20g	20g	20g	
		(0.039lb)	(0.041lb)	(0.044lb)	(0.044lb)	(0.044lb)	
	Typical Cable retention force	22Kg to 44Kg (50lb to 100lb) - Dependent on cable material and diameter.					
	Cable O.D. range - JAWS clamp						
	IDC		Max. C	able O.D. 5.85mm	(0.23")		
	Standard solder		3mm to	6.5mm (0.118" to	0.255")		
	Large Solder		6.5mm	to 8mm ( 0.255"	to 0.314")		
	Mechanical Operations			1000 mating cycl	es		

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

 $^{\scriptscriptstyle 2)}$  Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.

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

## **STANDARD DATA AC CABLE CONNECTORS**

		DETAILS			
MATERIALS	Connector shell - Metal	Diecast Zinc Alloy			
	Shell finish	Satin nickel or Black polyester			
	Connector shell - Thermoplastic	Thermoplastic, UL94V-0 Modified PPE Resin			
	Shell finish	Black			
	Insulators	UL94V-0 PBT Resin or Modified PPE Resin			
	Boot / Backshell	UL94V-0 Modified PPE Resin or Machined Brass			
	Finish	Black, other colours available - see page 80			
	Cable clamp				
	IDC Socket JAWS	UL94V-0 Modified PPO Resin (Pink)			
	IDC Pin JAWS	UL94V-0 Modified PPO Resin (Blue)			
	Standard Solder JAWS	UL94V-0 Modified PPO Resin (Black)			
	Large Solder JAWS	UL94V-0 Modified PPO Resin (Purple)			
	Cable Bushing	Santoprene			
-	Male Contact				
	Stamped - IDC / Plating	Phosphor Bronze / Silver or Gold (Optional)			
	Stamped - Solder / Plating	Phosphor Bronze / Silver or Gold (Optional)			
	Machined - Solder / Plating	Brass / Silver or Gold (Optional)			
	Female Contact				
	Stamped - IDC / Plating	Phosphor Bronze / Tin or Gold (Optional)			
	Stamped - Solder / Plating	Phosphor Bronze / Tin or Gold (Optional)			
	Machined - Solder / Plating	Brass / Silver or Gold (Optional)			
IDC RECOMMENDE CABLE DIMENSION	A - Cable O.D.: Max.⊞ 5.85mm (0.23"). B - Bare Copper Spiral Shield OD © 2.75⇒© 3.00mm (0.11≝0.12") (A) C - OD © 1.30⇒ © 1.50mm (0.05"⇒0.06") D - 16/.005" (24 AWG stranded wire) Thermoplastic Elastomer Thermoplastic Elastomer High Molecular Weight Polyethylene Bare Copper Spiral Shield Min. 90% Coverage 56/.005" (36AWG)				



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

(Female only)

- Precision machined contacts
- · Cost effective stamped contacts on 3 pole
- Latchless versions (Non-Latching)

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**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.

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

## Simple steps to guide you in using this catalogue

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

### METAL D TYPE FLANGE



### 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 31 Specifications: Page 32 PCB Footprints: Page 33 Panel Cutouts: Page 33

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole male, D Flange,	Standard	AC3MMDZ
19		Machined contacts, Nickel Finish	Gold Plated Contacts	AC3MMDZ-AU
	19.0 (.748")-4 -2.7 [.106"]		Vertical PCB	AC3MMDZV
Caminhas			Bulk Pack	AC3MMDZ BULK
		XLR 3 pole male, D Flange,	Standard	AC3MMDZB
9	→ 26.0 [1.024 <sup>*</sup> ]→ → → 5.5 [.217 <sup>*</sup> ] → − 32.1 [1.263 <sup>*</sup> ]→ → 36.5 [1.437 <sup>*</sup> ]→	Machined contacts, Black Finish	Gold Plated Contacts	AC3MMDZB-AU
		DIACKTIIIISII	Vertical PCB	AC3MMDZVB
as a standing			Bulk Pack	AC3MMDZB BULK
-	19.0 [.748"] .748"] .748"] .748"] .755 [.217"] .755 [.1027"] .755 [.1027"]	XLR 3 pole male, D Flange,	Standard	AC3MDZ
(°)))		XLR 3 pole male, D Flange, Stamped contacts, Black Finish	Gold Plated Contacts	AC3MDZ-AU
			Vertical PCB	AC3MDZV
and the second second			Bulk Pack	AC3MDZ BULK
			Standard	AC3MDZB
9			Gold Plated Contacts	AC3MDZB-AU
			Vertical PCB	AC3MDZVB
and the second s			Bulk Pack	AC3MDZB BULK
- Cont		XLR 3 pole female, D Flange,	Standard	AC3FDZ
		Stamped contacts, Nickel Finish	Gold Plated Contacts	AC3FDZ-AU
	← 26.0 [1.024"] ← ← 6.5 [.256"] ← ← -2.5 [.099"]		Vertical PCB	AC3FDZV
all and a second			Bulk Pack	AC3FDZ BULK
		XLR 3 pole female, D Flange,	Standard	AC3FDZB
1	19.0	Stamped contacts, Black Finish	Gold Plated Contacts	AC3FDZB-AU
			Vertical PCB	AC3FDZVB
all the second sec			Bulk Pack	AC3FDZB BULK

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

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			XLR 4 pole male, D Flange,	Standard	AC4MDZ
			Machined contacts, Nickel Finish	Gold Plated Contacts	AC4MDZ-AU
	<sup>19.0</sup> [.748"] •		NICKELLINGH	Vertical PCB	AC4MDZV
The second second	(1.220 <sup>-</sup> ]			Bulk Pack	AC4MDZ BULK
	31.0 [	SOLDER CONTACTS	XLR 4 pole male, D Flange,	Standard	AC4MDZB
9/33	26.0 [1.024"]-		Machined contacts, Black Finish	Gold Plated Contacts	AC4MDZB-AU
			Didok Tillion	Vertical PCB	AC4MDZVB
and the second second				Bulk Pack	AC4MDZB BULK
			XLR 4 pole female, D Flange,	Standard	AC4FDZ
			Machined contacts, Nickel Finish	Gold Plated Contacts	AC4FDZ-AU
	-26.0 [1.024*]-	<mark>₩-=+</mark> -6.5 [.256"] -=++=-2.5 [.098"]		Vertical PCB	AC4FDZV
and the second s	945"]-			Bulk Pack	AC4FDZ BULK
	-24.0 [1.2207]		XLR 4 pole female, D Flange,	Standard	AC4FDZB
9	5.5 [.217"]	SOLER CONTACTS ☐ PCB CONTACTS ☐ PCB CONTACTS ☐ 22.0 [.866*] = = 32.0 [1.260*] = 36.2 [1.425*] =	Machined contacts, Black Finish	Gold Plated Contacts	AC4FDZB-AU
				Vertical PCB	AC4FDZVB
				Bulk Pack	AC4FDZB BULK
			XLR 5 pole male, D Flange, Machined contacts, Nickel Finish	Standard	AC5MDZ
(°)				Gold Plated Contacts	AC5MDZ-AU
	<sup>19.0</sup> [.748"] <sup>-</sup>	-T-2.7 [.106"] F-T-5.5 [.217"]		Vertical PCB	AC5MDZV
Contraction of the second	(1.220°]			Bulk Pack	AC5MDZ BULK
	-24.0	SOLDER CONTACTS	XLR 5 pole male, D Flange,	Standard	AC5MDZB
8	-26.0 [1.024"]	SOLDER CONTACTS 	Machined contacts, Black Finish	Gold Plated Contacts	AC5MDZB-AU
			Didok Timon	Vertical PCB	AC5MDZVB
				Bulk Pack	AC5MDZB BULK
			XLR 5 pole female, D Flange,	Standard	AC5FDZ
E			Machined contacts, Nickel Finish	Gold Plated Contacts	AC5FDZ-AU
	→ 26.0 [1.024 <sup>*</sup> ] →			Vertical PCB	AC5FDZV
	24.0 [.9457]			Bulk Pack	AC5FDZ BULK
	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		XLR 5 pole female, D Flange, Machined contacts, Black Finish	Standard	AC5FDZB
		Solder contacts 31.1 [1.224"] → 22.0 [.866"] → 36.2 [1.425"] →		Gold Plated Contacts	AC5FDZB-AU
	[.748]	5 [		Vertical PCB	AC5FDZVB
and the second second				Bulk Pack	AC5FDZB BULK

<sup>24</sup> 

**METAL D TYPE FLANGE** 

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 6A pole male, D Flange,	Standard	AC6AMDZ	
RA			Machined contacts, Nickel Finish	Gold Plated Contacts	AC6AMDZ-AU
	19.0 [.748"] -	-2.7 [.106"]		Vertical PCB	AC6AMDZV
CLUSTER COMPANY	24.0 [.945 <sup>-]</sup>			Bulk Pack	AC6AMDZ BULK
	31.0 [	SOLDER CONTACTS	XLR 6A pole male, D Flange,	Standard	AC6AMDZB
960	- 26.0 [1.024"]	- 5.5     [.217"]       - 32.1     [1.263"]	Machined contacts, Black Finish	Gold Plated Contacts	AC6AMDZB-AU
1057			Didok Timon	Vertical PCB	AC6AMDZVB
				Bulk Pack	AC6AMDZB BULK
			XLR 6A pole female, D Flange,	Standard	AC6AFDZ
( <b>P</b>			Machined contacts, Nickel Finish	Gold Plated Contacts	AC6AFDZ-AU
	- 26.0 [1.024"]		NICKEITIIISI	Vertical PCB	AC6AFDZV
and				Bulk Pack	AC6AFDZ BULK
	-31.0 [1.220 <sup>1</sup> ]		XLR 6A pole female,	Standard	AC6AFDZB
Sector Sector	(19.0) (7.48"] = 31.1 [1.224"] = 36.2 [1.425"] = 3	D Flange, Machined contacts, Black Finish	Gold Plated Contacts	AC6AFDZB-AU	
			Vertical PCB	AC6AFDZVB	
				Bulk Pack	AC6AFDZB BULK
2		XLR 7 pole male, D Flange, Gold Plated	Standard	AC7MDZ	
	19.0 [.748"] - [.748] - [.	- 2.7 [.106 <sup>*</sup> ]	Machined contacts, Nickel Finish	Vertical PCB	AC7MDZV
and the second se				Bulk Pack	AC7MDZ BULK
86	26.0 [1.024"]	SOLDER CONTACTS           5.5 [.217]           -32.1 [1.263"]	XLR 7 pole male, D Flange, Gold Plated Machined contacts,	Standard	AC7MDZB
			Black Finish	Vertical PCB	AC7MDZVB
automation of the				Bulk Pack	AC7MDZB BULK
pue al			XLR 7 pole female, D Flange, Gold Plated Machined contacts,	Standard	AC7FDZ
	- 26.0 [1.024 <sup>*</sup> ] →	-6.5 [.256"]	Nickel Finish	Vertical PCB	AC7FDZV
International State	<b>PUSH</b>			Bulk Pack	AC7FDZ BULK
		XLR 7 pole female, D Flange, Gold Plated Machined contacts,	Standard	AC7FDZB	
	19.0 [.748*]	— 32.0 [1.260*] — J — 36.2 [1.425*] — J	Black Finish	Vertical PCB	AC7FDZVB
and the second				Bulk Pack	AC7FDZB BULK

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

### **METAL P TYPE FLANGE**



#### Features:

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

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

Part Number Breakdown: Page 31 **Specifications: Page 32 PCB Footprints: Page 33** Panel Cutouts: Page 33

PRODUCT - FIGURE	DRAWING Din	mensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			XLR 3 pole male,	Standard	AC3MMPNZ
			Narrow flange, Machined contacts,	Gold Plated Contacts	AC3MMPNZ-AU
		⊯ 25.5 [1.004"] <del>~</del>	Nickel Finish	Vertical PCB	AC3MMPNZV
6				Bulk Pack	AC3MMPNZ BULK
			XLR 3 pole male, Narrow flange,	Standard	AC3MMPNZB
	SOLDER CONTACTS	PCB CONTACTS	Machined contacts, Black Finish	Gold Plated Contacts	AC3MMPNZB-AU
			DIACK FILIISI	Vertical PCB	AC3MMPNZVB
				Bulk Pack	AC3MMPNZB BULK
			XLR 3 pole male, Narrow flange,	Standard	AC3MPNZ
		PCB CONTACTS 36.5 [1.437 <sup>+</sup> ]	XLR 3 pole male, Narrow flange, Stamped contacts, Narrow flange, Stamped contacts, Black Finish	Gold Plated Contacts	AC3MPNZ-AU
	2.4 [.094*]			Vertical PCB	AC3MPNZV
6				Bulk Pack	AC3MPNZ BULK
	36.8			Standard	AC3MPNZB
	Solder Contacts			Gold Plated Contacts	AC3MPNZB-AU
				Vertical PCB	AC3MPNZVB
				Bulk Pack	AC3MPNZB BULK
			XLR 3 pole male,	Standard	AC3MMP
2			Wide flange, Machined contacts, Nickel Finish	Gold Plated Contacts	AC3MMP-AU
		₽25.0 [0.982]		Vertical PCB	AC3MMPV
	26.7 [1.039]			Bulk Pack	AC3MMP BULK
			XLR 3 pole male, Wide flance	Standard	AC3MMPB
60	16.7 [.656"] 31.5 [1.238"] -	PCB CONTACTS	Wide flange, Machined contacts, Black Finish	Gold Plated Contacts	AC3MMPB-AU
				Vertical PCB	AC3MMPVB
				Bulk Pack	AC3MMPB BULK

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### **METAL P TYPE FLANGE**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole male, Wide flange,	Standard	AC3MP	
e a			Stamped contacts, Nickel Finish	Gold Plated Contacts	AC3MP-AU
	-27.2 [1.070"]	094"]		Vertical PCB	AC3MPV
harman and				Bulk Pack	AC3MP BULK
			XLR 3 pole male, Wide flange,	Standard	AC3MPB
C.C.	SOLDER C	CONTACTS [1.278"]	Stamped contacts, Black Finish	Gold Plated Contacts	AC3MPB-AU
			Diack Tillion	Vertical PCB	AC3MPVB
LAND BURGH				Bulk Pack	AC3MPB BULK
			XLR 3 pole female, Wide flange,	Standard	AC3FPZ
Push			Stamped contacts, Nickel Finish	Gold Plated Contacts	AC3FPZ-AU
	-27.2 [1.070"]	38"]		Vertical PCB	AC3FPZV
1 miles				Bulk Pack	AC3FPZ BULK
	36.7 4	CONTACTS PCB CONTACTS	XLR 3 pole female, Wide flange, Stamped contacts, Black Finish	Standard	AC3FPZB
C push		.098"]		Gold Plated Contacts	AC3FPZB-AU
		•		Vertical PCB	AC3FPZVB
anderster				Bulk Pack	AC3FPZB BULK
			XLR 4 pole male,	Standard	AC4MPNZ
			Narrow flange, Machined contacts,	Gold Plated Contacts	AC4MPNZ-AU
		094"]	Nickel Finish	Vertical PCB	AC4MPNZV
e	36.8 [1.449]			Bulk Pack	AC4MPNZ BULK
			XLR 4 pole male,	Standard	AC4MPNZB
	Solder of 32.1 [	CONTACTS PCB CONTACTS	Narrow flange, Machined contacts,	Gold Plated Contacts	AC4MPNZB-AU
			Black Finish	Vertical PCB	AC4MPNZVB
				Bulk Pack	AC4MPNZB BULK
			XLR 4 pole male,	Standard	AC4MP
2			Wide flange, Machined contacts, Nickel Finish	Gold Plated Contacts	AC4MP-AU
		[.094*] ► 25.0 [0.982*]→		Vertical PCB	AC4MPV
in commence				Bulk Pack	AC4MP BULK
			XLR 4 pole male,	Standard	AC4MPB
2		CONTACTS PCB CONTACTS [1.238"]	Wide flange, Machined contacts, Black Finish	Gold Plated Contacts	AC4MPB-AU
				Vertical PCB	AC4MPVB
manutition				Bulk Pack	AC4MPB BULK

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#### **METAL P TYPE FLANGE**

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 4 pole female, Wide flange,	Standard	AC4FPZ
		Machined contacts, Nickel Finish	Gold Plated Contacts	AC4FPZ- AU
			Vertical PCB	AC4FPZV
Contraction of the second seco			Bulk Pack	AC4FPZ BULK
		XLR 4 pole female, Wide flange,	Standard	AC4FPZB
		Machined contacts, Black Finish	Gold Plated Contacts	AC4FPZB- AU
	= [6.7] = 30.6 [1.204*] = = 34.0 [1.340*] =	Didok Timon	Vertical PCB	AC4FPZVB
and the second second			Bulk Pack	AC4FPZB BULK
		XLR 5 pole male, Narrow flange,	Standard	AC5MPNZ
		Machined contacts, Nickel Finish	Gold Plated Contacts	AC5MPNZ- AU
			Vertical PCB	AC5MPNZV
0			Bulk Pack	AC5MPNZ BULK
	2.27.0 [1.065]	XLR 5 pole male, Narrow flange,	Standard	AC5MPNZB
	Image: Solution contacts     PCB contacts       →22.2 [.874"] →     → 25.5 [1.006"] →       → 25.5 [1.006"] →     → 36.5 [1.439"] →	Machined contacts, Black Finish	Gold Plated Contacts	AC5MPNZB- AU
			Vertical PCB	AC5MPNZVB
			Bulk Pack	AC5MPNZB BULK
	p+-27.2 [1.070"]→ŋ -→p+-2.4 [.094*] p-25.0 [0.982"]+ŋ	XLR 5 pole male, Wide flange, Machined contacts, Nickel Finish	Standard	AC5MP
			Gold Plated Contacts	AC5MP- AU
			Vertical PCB	AC5MPV
And the second s			Bulk Pack	AC5MP BULK
		XLR 5 pole male, Wide flange,	Standard	AC5MPB
Co	SOLDER CONTACTS 16.7 [.656"] <sup></sup>	Machined contacts, Black Finish	Gold Plated Contacts	AC5MPB- AU
		Didok Hillon	Vertical PCB	AC5MPVB
L'agrande de la			Bulk Pack	AC5MPB BULK
		XLR 5 pole female, Wide flange,	Standard	AC5FPZ
		Machined contacts, Nickel Finish	Gold Plated Contacts	AC5FPZ- AU
			Vertical PCB	AC5FPZV
Lume .			Bulk Pack	AC5FPZ BULK
aush		XLR 5 pole female, Wide flange, Machined contacts, Black Finish	Standard	AC5FPZB
	SOLDER CONTACTS 16.7 		Gold Plated Contacts	AC5FPZB- AU
			Vertical PCB	AC5FPZVB
			Bulk Pack	AC5FPZB BULK

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**METAL P TYPE FLANGE** 

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 6A pole male, Narrow flange,	Standard	AC6AMPNZ	
			Machined contacts, Nickel Finish	Gold Plated Contacts	AC6AMPNZ- AU
		2.4 [.094"] ([1.006"]↔		Vertical PCB	AC6AMPNZV
6				Bulk Pack	AC6AMPNZ BULK
	-27.0 [1.063 <sup>-1</sup> ] -36.8 [1.449 <sup>-1</sup> ]		XLR 6A pole male, Narrow flange,	Standard	AC6AMPNZB
		LDER CONTACTS 25.5 [1.006"]	Machined contacts, Black Finish	Gold Plated Contacts	AC6AMPNZB- AU
			DIACKTIIIISII	Vertical PCB	AC6AMPNZVB
•				Bulk Pack	AC6AMPNZB BULK
			XLR 6A pole male, Wide flange,	Standard	AC6AMP
e			Machined contacts, Nickel Finish	Gold Plated Contacts	AC6AMP- AU
	27.2 [1.070"]	-2.4 [.094"]2.5.0 [0.982"]→		Vertical PCB	AC6AMPV
-				Bulk Pack	AC6AMP BULK
	- 36.4		XLR 6A pole male, Wide flange, Machined contacts,	Standard	AC6AMPB
C.		SOLDER CONTACTS 		Gold Plated Contacts	AC6AMPB- AU
		Black Finish	Vertical PCB	AC6AMPVB	
Laurence and				Bulk Pack	AC6AMPB BULK
			XLR 6A pole female, Wide flange, Machined contacts, Nickel Finish	Standard	AC6AFPZ
				Gold Plated Contacts	AC6AFPZ- AU
	-27.2 [1.071"]	- 3.5 [.138"]2.5 [.098"]		Vertical PCB	AC6AFPZV
1				Bulk Pack	AC6AFPZ BULK
	- 36.8		XLR 6A pole female, Wide flange,	Standard	AC6AFPZB
		SOLDER CONTACTS	Machined contacts, Black Finish,	Gold Plated Contacts	AC6AFPZB- AU
	16.7 [.656*]	- 31.1 [1.224*] - J - 36.2 [1.425*] - J	DIACK FILLISH,	Vertical PCB	AC6AFPZVB
and the second se				Bulk Pack	AC6AFPZB BULK
			XLR 7 pole male, Narrow flange, Gold Plated Machined contacts,	Standard	AC7MPNZ
		2.4 [.094"] → 25.5 [1.006"]	Nickel Finish	Vertical PCB	AC7MPNZV
6	-36.8 [1.449 <sup>]</sup>			Bulk Pack	AC7MPNZ BULK
C	Image: SoldEr contacts           Image: SoldEr con	XLR 7 pole male, Narrow flange, Gold Plated Machined contacts,	Standard	AC7MPNZB	
			Black Finish	Vertical PCB	AC7MPNZVB
				Bulk Pack	AC7MPNZB BULK

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#### **METAL P TYPE FLANGE**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	27.2 [1.070 <sup>-</sup> ]	XLR 7 pole male, Wide flange, Gold Plated Machined contacts,	Standard	AC7MP	
		.4 [.094"]	Nickel Finish	Vertical PCB	AC7MPV
hand a second second				Bulk Pack	AC7MP BULK
6		LDER CONTACTS	XLR 7 pole male, Wide flange, Gold Plated Machined contacts,	Standard	AC7MPB
		Black Finish	Vertical PCB	AC7MPVB	
and a second second				Bulk Pack	AC7MPB BULK
	27.2 [1.071*] 2.5 [.098*] 2.5 [.098*] 2.5 [.098*] 	XLR 7 pole female, Wide flange, Gold Plated Machined contacts,	Standard	AC7FPZ	
		.5 [.138"]2.5 [.098"]	Nickel Finish	Vertical PCB	AC7FPZV
				Bulk Pack	AC7FPZ BULK
		25.0 [.984*]	XLR 7 pole female, Wide flange, Gold Plated Machined contacts,	Standard	AC7FPZB
		Black Finish	Vertical PCB	AC7FPZVB	
ine and the				Bulk Pack	AC7FPZB BULK



**METAL TYPE FLANGE** 

## PART NUMBER BREAKDOWN

METAL TYPE FLANGE

E. G . AC3MMPNZVB-AU B AC (Series Prefix), 3	contacts.	Male, Machine	d Contacts, <b>PN</b> (Narrow Flange),	SENES PARTY	MACT	AVOUTS	MINET	PE STY	E SERI	SHELL	inish .	MACTP	ATING PACTAG	MG
Z (Metal Chassis Ser - AU (Gold Plated Co	ies), Vertic ntacts), Bu	al Printed Circ Jlk Packaged.	uit Board, Black Polyester Finish,	AC 3	M	M	PN	Z	V	B		J	BULK	
SERIES PREFIX	AC	=	Series Prefix	ן ∟ך										
CONTACT LAYOUTS	3	=	3 Contacts											
	4	=	4 Contacts											
	5	=	5 Contacts											
	6A	=	6 Contacts											
	7	=	7 Contacts											
GENDER	F	=	Female Socket Contacts	1										
	М	=	Male Pin Contacts		]									
MACHINED	Blank	=	Stamped Contacts											
CONTACTS	м	=	Machined Contacts (Applicable 3 male pin contacts only)											
			connectors have machined andard. They are not available in acts.											
SHELL STYLE	D	=	Small Flange (front or rear mounting)											
	Р	=	Large Shell with wide flange											
	PN	=	Large Shell with Narrow Flange (male only)											
SHELL SERIES	Blank	=	Male P Shell Style only											
	Z	=	Metal Chassis Series											
TERMINATION	Blank	=	Solder Buckets	1										
	v	=	Vertical Printed Circuit Board						]					
SHELL FINISH	Blank	=	Nickel Plated Finish	1										
	В	=	Black Polyester Finish							]				
CONTACT PLATING	Blank	=	Standard Plating (Silver or Tin - Refer to Standard Data.) NOTE: 7 Contact is gold plated as standard.	]										
	AU	=	Gold Plated											
PACKAGING	Blank	=	Individual Bags	7										
	BULK	=	Bulk Packed											

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

**STANDARD DATA** 

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

		VALUE								
GENERAL Characteristics	Number of contacts	3	4	5	6A	7				
UNANAU I ENIS I IUS	Contact Arrangement (Front view of pin inserts)					$\begin{pmatrix} 1 & 7 & 6 \\ 2 & 3 & 4 \\ & & 3 & 6 \\ & & & 4 \\ & & & & 6 \\ & & & & & 6 \\ \end{pmatrix}$				
	Termination	Solder Bucket / 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 RoHS Directive 2002/95/EC								
ELECTRICAL Characteristics	Service Voltage RMS	133V <sup>1)</sup>								
CHARACIERISIICS	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								
UNANAU I ENIS I IUS	Operating Temperature	-25°C to +75°C (-13°F to +167°F)								
MECHANICAL Characteristics	Weight - Metal <sup>2)</sup>	31g	32g	33g	33g	33g				
CHANAGIENISTICS		(0.068lb)	(0.070lb)	(0.072lb)	(0.072lb)	(0.072lb)				
	Mechanical Operations	1000 mating cycles								
MATERIALS	Connector Shell	Diecast Zinc Alloy								
	Shell Finish	Satin Nickel or Black Polyester								
	Insulators	UL94V-0 PBT Resin or Modified PPE Resin								
	Male Contact									
	Stamped Solder and PCB-(Material/Plating)	)) Phosphor Bronze / Silver or Gold (optional)								
	Machined Solder-(Material/Plating)	Brass / Silver or Gold (optional)								
	Female Contact									
	Stamped Solder and PCB-(Material/Plating)	g) Phosphor Bronze / Tin or Gold (optional)								
	Machined Solder-(Material/Plating)	) Brass / Silver or Gold (Optional)								

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

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

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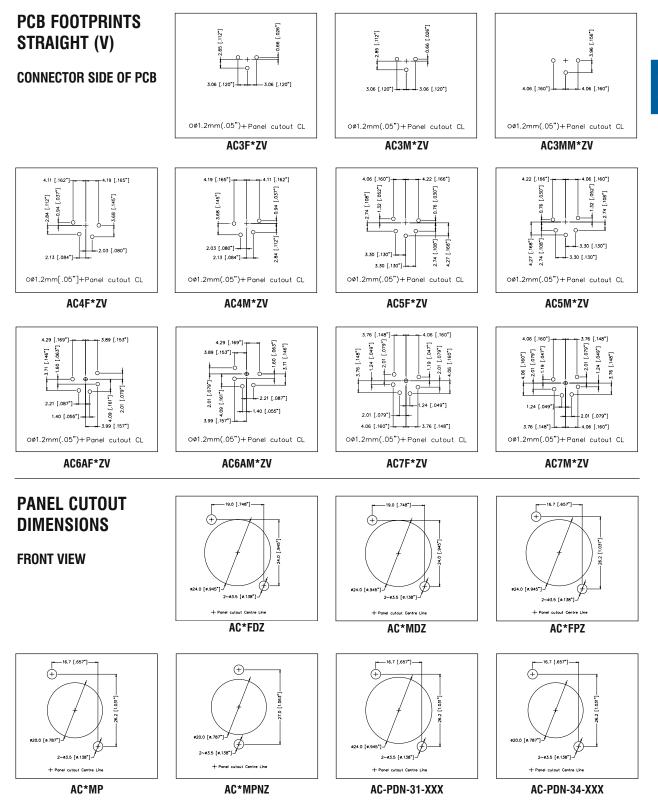
Z

## AC SERIES CHASSIS METAL "Z"

AC SERIES CHASSIS CONNECTORS

 $\bigcirc$ 

**METAL TYPE FLANGE** 



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

#### Options

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

### **Ordering Codes**

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

#### AC SERIES CHASSIS CONNECTORS

#### A AND B TYPE FLANGE

## AC SERIES - A AND B TYPE XLR PCB CHASSIS CONNECTORS

## Simple steps to guide you in using this catalogue

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

### THERMOPLASTIC A TYPE FLANGE



### Features:

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

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

### Part Number Breakdown: Page 44-45 Specifications: Page 47

### PCB Footprints: Page 48

Panel Cutouts: Page 49

Z

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	GROUND LINK Variations	PART NUMBER
			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3MAH-AU-B
C.	25.4 [.998"]		XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to Mating connector shell	AC3MAH1-AU-B
			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground	AC3MAH2-AU-B
			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Pin 1	AC3MAH3-AU-B
			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis to PCB, Pin 1 sep. Ground	AC3MAH4-AU-B
			XLR 3 pole male with integrated switch, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis to PCB, Pin 1 sep. Ground	AC3MAH4-SW-B

### THERMOPLASTIC A TYPE FLANGE

PRODUCT - FIGURE	DRAWING	Dimer	isions in mm (inches)	DESCRIPTION	GROUND LINK Variations	PART NUMBER
		-24.0 [.945] 		XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3MAV-AU-B
	2.7 [.106"]	-24.0 [.945*] -19.5 [.768*] 		XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to Mating connector shell	AC3MAV1-AU-B
	2.7 [.106*]	-24.0 [.946"]- =19.5 [.768"]- 		XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground	AC3MAV2-AU-B
	25.4 [998"] 	24.0 [.945"] 19.5 [.768"] 		XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Pin 1	AC3MAV3-AU-B
	-25.4 [.998"] 	-24.0 [.945"]- 19.5 [.768"]- -19.5 [.768"]- 		XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis to PCB, Pin 1 sep. ground	AC3MAV4-AU-B
		-24.0 [945"]		XLR 3 pole male, Solder Buckets, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3MA-AU-B
C.	25.4 [996"] PUSH PUSH PUSH PUSH PUSH 2.7 [-106"			XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAH-AU-B
0				XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to Mating connector shell	AC3FAH1-AU-B

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### THERMOPLASTIC A TYPE FLANGE

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	GROUND LINK Variations	PART NUMBER
100	254 [.998 <sup>°</sup> ] PUSH PUSH 27 27 [.106 <sup>°</sup> ]		XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground	AC3FAH2-AU-B
Ċ,	25 4   998"] -25 4   998"] -3 3   130" -195   76 -195   76 -195   76 -27 -106"]		XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis	AC3FAH3-AU-B
			XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAHL-AU-B
			XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to mating connector shell	AC3FAHL1-AU-B
0		58"]- 	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-B
C			XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis	AC3FAHL3-AU-B
0	25.4 [.998"] PUSH PUSH 2.7 [.106"] 2.7 [.106"] 2.7 [.106"] 2.4 [.500] 2.7 [.106"] 2.4 [.500] 2.7 [.106"] 2.4 [.500] 2.7 [.106"] 2.4 [.500] 2.7 [.106"] 2.4 [.500] 2.7 [.106"] 2.4 [.500] 2.7 [.106"] 2.4 [.500] 2.7 [.106"] 2.4 [.500] 2.7 [.106"] 2.4 [.500] 2.7 [.106"] 2.7 [.1		XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAV-AU-B
CO.			XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to mating connector shell	AC3FAV1-AU-B

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### THERMOPLASTIC A TYPE FLANGE

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	GROUND LINK Variations	PART NUMBER
	25.4 [.998"] + 9.5 [.768 - 9.5] - 9.5 - 7.7 - 1.06"] - 24.0 [.94		XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground.	AC3FAV2-AU-B
0	25.4 [.988'] 		XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis	AC3FAV3-AU-B
0	25.4 [.998"] 19.5 [.768"] 19.5 [.768"] 19		XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAVL-AU-B
0	25.4 [.998"] +19.5 [.768 +19.5 [.768 -2.7 -2.7 -2.0 [.94		XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to Mating connector shell	AC3FAVL1-AU-B
C.			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-B
C.	25.4 [.998 <sup>-</sup> ] -25.4 [.998 <sup>-</sup> ] -9.5 [.766 <sup>-</sup>		XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis	AC3FAVL3-AU-B

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### **METAL B TYPE FLANGE**



#### 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 44-45 Specifications: Page 47 PCB Footprints: Page 48 Panel Cutouts: Page 49



PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION/ GROUND LINK	MOUNTING FLANGE Variations	PART NUMBER
50			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Nickel Finish	AC3MBH-AU-B
			No Ground Link	Black Finish	AC3MBHB-AU-B
900			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack	Nickel Finish	AC3MBH1-AU-B
			Pin 1 to Chassis to Mating connector shell	Black Finish	AC3MBHB1-AU-B
500			XLR 3 pole male, Horizontal PCB, Gold Plated Contacts,	Nickel Finish	AC3MBH2-AU-B
			Bulk Pack Mating connector shell to Chassis - Pin 1 sep. Ground	Black Finish	AC3MBHB2-AU-B
500	25.5 [.996"]		XLR 3 pole male, Horizontal PCB, Gold Plated Contacts,	Nickel Finish	AC3MBH3-AU-B
	27 [106"]		Bulk Pack Mating connector shell to Pin 1	Black Finish	AC3MBHB3-AU-B
900	25.3 [.996 <sup>-</sup> ]		XLR 3 pole male, Horizontal PCB, Non-Latching Type,	Nickel Finish	AC3MBHL-AU-B
			Gold Plated Contacts, Bulk Pack No Ground Link	Black Finish	AC3MBHBL-AU-B
	25.3 [ 996"]	-240 [945]	XLR 3 pole male, Vertical PCB, Gold Plated Contacts,	Nickel Finish	AC3MBV-AU-B
			Bulk Pack No Ground Link	Black Finish	AC3MBVB-AU-B

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

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION/ Ground Link	MOUNTING FLANGE VARIATIONS	PART NUMBER
	-19.		XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	Nickel Finish	AC3MBV1-AU-B
			Pin 1 to Chassis to Mating connector shell	Black Finish	AC3MBVB1-AU-B
	-19.	24.0 [945]	XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	Nickel Finish	AC3MBV2-AU-B
			Mating connector shell to Chassis - Pin 1 sep. Ground	Black Finish	AC3MBVB2-AU-B
	25.3 [.996"]		XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	Nickel Finish	AC3MBV3-AU-B
			Mating connector shell to Pin 1	Black Finish	AC3MBVB3-AU-B
9	PUSH		XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts,	Nickel Finish	AC3FBH-AU-B
			Bulk Pack No Ground Link	Black Finish	AC3FBHB-AU-B
.96	PUSH		XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts,	Nickel Finish	AC3FBH1-AU-B
			Bulk Pack Pin 1 to Chassis to Mating connector shell	Black Finish	AC3FBHB1-AU-B
.9			XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated	Nickel Finish	AC3FBH2-AU-B
			Contacts, Bulk Pack Mating connector shell to Chassis - Pin 1 sep. Ground	Black Finish	AC3FBHB2-AU-B
9	PUSH		XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts,	Nickel Finish	AC3FBH3-AU-B
			Bulk Pack Pin 1 to Chassis	Black Finish	AC3FBHB3-AU-B
9			XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts,	Nickel Finish	AC3FBHL-AU-B
			Bulk Pack	Black Finish	AC3FBHBL-AU-B

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**METAL B TYPE FLANGE** 

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION/ Ground Link	MOUNTING FLANGE Variations	PART NUMBER
			XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack	Nickel Finish Black Finish	AC3FBHL1-AU-B AC3FBHBL1-AU-B
	2.7 [.106*]		Pin 1 to Chassis to mating connector shell		
9			XLR 3 pole female, Horizontal PCB, Non- Latching Type, Gold Plated Contacts, Bulk Pack	Nickel Finish	AC3FBHL2-AU-B
			Mating connector shell to Chassis - Pin 1 sep. Ground.	Black Finish	AC3FBHBL2-AU-B
	25.3 [.996"]		XLR 3 pole female, Horizontal PCB, Non-Latching Type	Nickel Finish	AC3FBHL3-AU-B
			Gold Plated Contacts, Bulk Pack Pin 1 to Chassis	Black Finish	AC3FBHBL3-AU-B
	PUSH -24		XLR 3 pole female, Vertical PCB, Latching Type,	Nickel Finish	AC3FBV-AU-B
			Gold Plated Contacts, Bulk Pack No Ground Link	Black Finish	AC3FBVB-AU-B
			XLR 3 pole female, Vertical PCB, Latching Type,	Nickel Finish	AC3FBV1-AU-B
400			Gold Plated Contacts, Bulk Pack Pin 1 to Chassis to mating connector shell	Black Finish	AC3FBVB1-AU-B
	PUSH		XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated	Nickel Finish	AC3FBV2-AU-B
			Contacts, Bulk Pack Mating connector shell to Chassis - Pin 1 sep. Ground.	Black Finish	AC3FBVB2-AU-B
	PUSH		XLR 3 pole female, Vertical PCB, Latching Type,	Nickel Finish	AC3FBV3-AU-B
407	Gold Plated Contacts, Bulk Pack Pin 1 to Chassis		Black Finish	AC3FBVB3-AU-B	
	25.3 [.995]		XLR 3 pole female, Vertical PCB, Non-Latching Type, Cold Ploted Contacts	Nickel Finish	AC3FBVL-AU-B
<b>40</b> .			Gold Plated Contacts, Bulk Pack No Ground Link	Black Finish	AC3FBVBL-AU-B

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

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION/ Ground Link	MOUNTING FLANGE Variations	PART NUMBER
	25.3 [.996 <sup>°</sup> ]		XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts,	Nickel Finish	AC3FBVL1-AU-B
S			Bulk Pack	Black Finish	AC3FBVBL1-AU-B
	2.7 [.106*]-		Pin 1 to Chassis to Mating connector shell		
			XLR 3 pole female, Vertical PCB, Non-Latching Type, Cald Distad Contents	Nickel Finish	AC3FBVL2-AU-B
			Gold Plated Contacts, Bulk Pack	Black Finish	AC3FBVBL2-AU-B
	2.7 [.106"]-		Mating connector shell to Chassis - Pin 1 sep. Ground.		
	25.3 [.996"]		XLR 3 pole female, Vertical PCB, Non-Latching Type,	Nickel Finish	AC3FBVL3-AU-B
S.C			Gold Plated Contacts, Bulk Pack	Black Finish	AC3FBVBL3-AU-B
	2.7 [.106*]-		Pin 1 to Chassis		

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### THERMOPLASTIC A TYPE FLANGE



### Features:

- 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 46

#### PCB Footprints: Page 48

Specifications: Page 47 Panel Cutouts: Page 49



PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION/ Ground Link	MOUNTING FLANGE Variations	PART NUMBER
			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
<b>S</b>		25 [.984"]	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"] 19.5 [.760"] 19.5 [.760"] 19		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
	3.2 [125 19.5 [.768"] 10.5 [.76		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 CHASSIS CONNECTORS

## Amphenol

A AND B TYPE FLANGE

### PART NUMBER BREAKDOWN

AC SERIES A AND B TYPE MALE - 3 CONTACT

												FINISH	en us	
				state	PREFIX	MACTLE	HOUTS DER H	ell str	PHNINA PHNINA PhNINA	ION INFINE	FLAN	SROUNDI SROUNDI	CONT CONT	ET PLAT
				AC	3	M	B	V	B			3 }  -	AU	
			Vertical Printed Circuit Board, Latchless, Id Plated Contacts), Bulk Packaged.											
SERIES PREFIX	AC	=	Series Prefix											
CONTACT LAYOUT	3	=	3 Contacts only	·										
GENDER	М	=	Male Pin Contacts											
SHELL SERIES	А	=	А Туре	1										
	В	=	В Туре											
TERMINATION	н	=	Horizontal Printed Circuit Board											
	v	=	Vertical Printed Circuit Board											
	Blank	=	Solder Bucket Contacts											
MOUNTING	Blank	=	Nickel											
FLANGE FINISH (B TYPE ONLY)	В	=	Black											
LOCKING	Blank	=	Latching											
MECHANISM	L	=	Latchless											
GROUNDING LINK Options	Blank	=	No Ground Link											
	1	=	Pin 1 to Chassis to mating connector shell											
	2	=	Mating connector shell to Chassis, Pin 1 separate ground.											
	3	=	Mating connector to Pin 1											
	4	=	Mating connector to Shell to Chassis to PCB, Pin 1 separate ground											
CONTACT PLATING	AU	=	Gold Plated Contacts											
	AG	=	Silver Plated Contacts (Non-Standard)											
PACKAGING	В	=	Bulk Packed	1										

AC SERIES CHASSIS CONNECTORS

## Amphenol

A AND B TYPE FLANGE

### PART NUMBER BREAKDOWN

AC SERIES A AND B TYPE FEMALE - 3 CONTACT

						Å	t with	1 MITS	t outs	t outs a pr	t outs a suff way	A MIS & MEETHER	*
					SERIES PP	SERIES PREFIX	SERIES PRETATION DE DE SH	SERIES PRETA CONTRELATIONS	SERIES FRETX CONTRACT ADDRESS SERIES BEING NOT	SERIES PHETA DIANA LADOUS SHITS SHITS PHETA DA DIANA D	SERIES PRETATION OF THE SERIES SERIES AND THE THE RECTORDED IN THE THE RECTORDED IN THE THE RECTORDED IN THE THE RECTORDED IN THE RECTORDED INTO THE RECTORDED IN THE RECTORDED INTO THE RECTORD. THE RECTORDED INTO THE RECTO	SERIES PRETA RELIEVED STATES AND THE PRETATION OF THE PRE	SERIES PRETAT COMPETIBILISED SERIES AND THE COMPETITIONS COMPETITICOMPETITICOMPETITICOMPETITICOMPETITICOMPETITICOMPETITICOMPETITICOMPETITICOMPETITICOMPETITICOMPARIES COMPETITICOMPETITICOMPETITICOMPETI
					AC	AC 3 F	AC 3 F B	AC 3 F B V	AC 3 F B V B	AC 3 F B V B L 3	AC 3 F B V B L 3 -	AC 3 F B V B L 3 - AU	AC 3 F B V B L 3 - AU B
E. G . AC3FAVL3-AU B AC (series prefix),3 c 3 (Pin 1 to Chassis G	contacts, <mark>F</mark> er Grounding), -	nale, <b>A</b> Type • <b>AU</b> (Gold P	, Vertical Printed Circuit Board,Latchless, lated Contacts), Bulk Packaged.										
SERIES PREFIX	AC	=	Series Prefix	1									
CONTACT LAYOUT	3	=	3 Contacts only										
GENDER	F	=	Female Socket Contacts										
SHELL SERIES	A	=	А Туре	1									
	В	=	В Туре										
TERMINATION	Н	=	Horizontal Printed Circuit Board										
	V	=	Vertical Printed Circuit Board										
MOUNTING Flange Finish	Blank	=	Nickel		 								
(B TYPE ONLY)	В	=	Black										
LOCKING Mechanism	Blank	=	Latching		·								
	L	=	Latchless										
GROUNDING LINK OPTIONS	Blank	=	No Ground Link										
	1	=	Pin 1 to Chassis to mating connector shell										
	2	=	Mating connector shell to Chassis, Pin 1 separate ground.										
	3	=	Pin 1 to Chassis										
CONTACT PLATING													
CONTACT PLATING	AU AG	=	Gold Plated Contacts Silver Plated Contacts (Non-Standard)										
PACKAGING	B		Bulk Packed	1	_	_							
AGRAGING	D	_	DUIK MACKEU	_									

A TYPE FLANGE

### PART NUMBER BREAKDOWN

AC SERIES A TYPE MALE AND FEMALE - 5 CONTACT

				SERIE	PREFIX	ARCIL	NOUTS OFR	ill st	HES BRINN	inon A	ç.
				AC	5	F	Α	V	-	AL	
E. G . AC5FAV-AU-B AC (series prefix),5 AU (Gold Plated Cor			, Vertical Printed Circuit Board,								
SERIES PREFIX	AC	=	Series Prefix								
CONTACT LAYOUT	5	=	5 Contacts only	1—							
GENDER	F	=	Female Socket Contacts	1							
	М	=	Male Pin Contacts								
SHELL SERIES	А	=	А Туре	]—							
TERMINATION	Н	=	Horizontal Printed Circuit Board	1							
	v	=	Vertical Printed Circuit Board								
CONTACT PLATING	AU	=	Gold Plated Contacts	1—							
PACKAGING	В	=	Bulk Packed	1							

A

**STANDARD DATA** 

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

		VALUE							
GENERAL	Number of contacts	3	5						
CHARACTERISTICS	Contact Arrangements (Front view of pin insert)								
	Termination	Printed Circuit Board (PCB)							
	Flammability rating of plastics	UL94V-0 UL94HB							
	Environmental	Complies with RoHS	Directive 2002/95/EC						
ELECTRICAL Characteristics	Service Voltage RMS	13	33V <sup>1)</sup>						
GRANAGIENISTICS	Test Voltage AC RMS	15	00V						
	Current carrying capacity	6A	3A						
	Typical Contact Resistance	≤5	mΩ						
	Insulation Resistance (initial)	≥2	GΩ						
	Insulation Resistance (after damp heat test)	≥1	GΩ						
CLIMATIC Characteristics	Protection Class	IP	40						
CHARACTERISTICS	Operating Temperature	-25°C to +75°C	(-13°F to +167°F)						
MECHANICAL Characteristics	Weight <sup>2)</sup>	14g (0	.030lb)						
GRANAGIENISTICS	Retention Spring separating force	≥	20N						
	Mounting Hole torque max.	1.	5Nm						
	Mechanical Operations	1500 ma	ting cycles						
	Fastening A Type Connectors Fastening B Type Connectors		x 1.06 and of Tri-rondular configuration screw M2.5						
MATERIALS	Connector Flange - B-Type Flange Finish - B-Type		Zinc Alloy or Black						
	Insulators	PA6.6+25% glass fibre reinforced, UL94V-0	UL94HB						
	Male Contact Material	Brass							
	Male Contact Plating	0.0762µm (3µ") gold over 0.762µm (30µ") nickel							
	Female Contact Material Female Contact Plating		ronze ver 0.762µm (30µ") nickel						
	Latch lock and Spring	Spring Steel							
	Ground element		ng Steel						

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

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

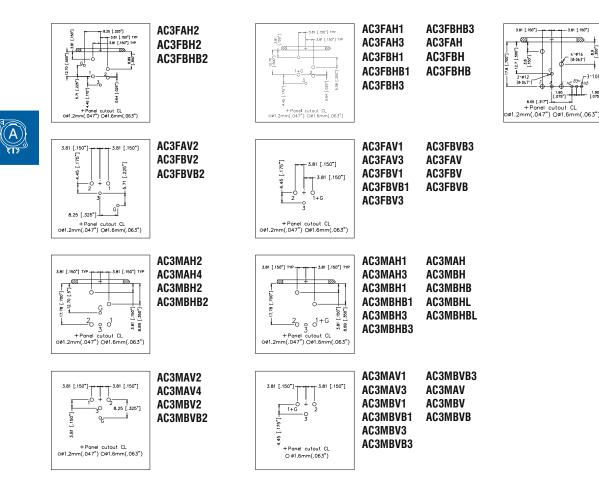
AC SERIES CHASSIS CONNECTORS

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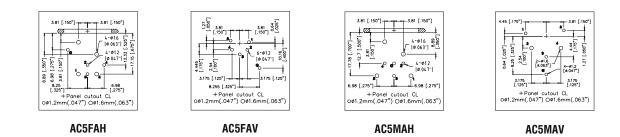
AC3MAH4SWB

A AND B TYPE FLANGE

### **AC SERIES A AND B TYPE CHASSIS** PCB FOOTPRINTS STRAIGHT (V) - CONNECTOR SIDE OF PCB



### **AC SERIES 5 PIN** PCB FOOTPRINTS STRAIGHT (V) - CONNECTOR SIDE OF PCB



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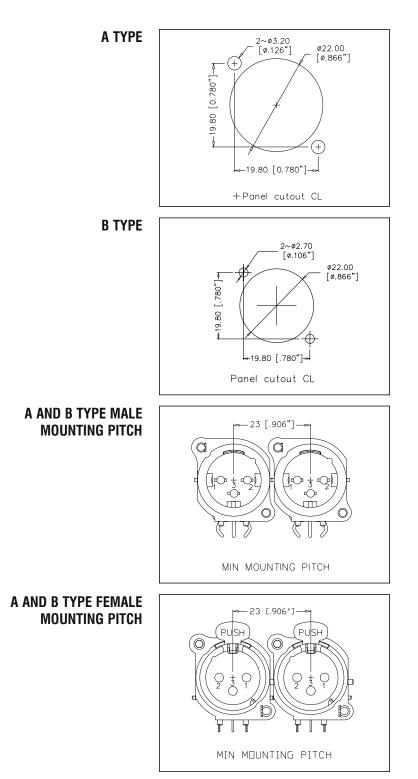


AC SERIES CHASSIS CONNECTORS

### A AND B TYPE FLANGE

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

**PANEL CUTOUT DIMENSIONS - FRONT VIEW** 



#### **THERMOPLASTIC C TYPE SERIES**

### AC SERIES-C TYPE DUAL CONNECTORS JACK/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. Various configurations are available in either stereo or mono layouts with Vertical, Horizontal Printed Circuit Board or Solder contacts.

#### **Features**

- · Two connectors in the one housing.
- · Space saving design.
- · Industry standard PCB footprint layout.
- 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

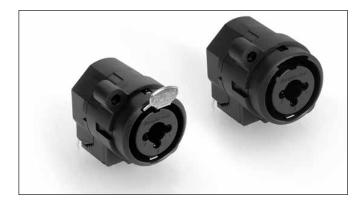
#### **Ordering Codes**

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

### **THERMOPLASTIC C TYPE SERIES**



#### 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 54 **Specifications: Page 56 PCB Footprints: Page 55**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
SO			XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Horizontal PCB mount, Bulk Pack	Latching	ACJC5H BULK
RO	27 (1053) 20 (1877) 4 (817) (167) 10 (1994) 10 (19		XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC5HL BULK
RO	27 [10.5] 27 [10.5] 20 [77] 1 [20] 1 [20]		XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Vertical PCB mount, Bulk Pack	Latching	ACJC5V BULK
80			XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC5VL BULK
			XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Solder Contacts, Bulk Pack	Latching	ACJC5S BULK
			XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Solder Contacts, Bulk Pack	Non-latching, Retention Spring	ACJC5SL BULK

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### **THERMOPLASTIC C TYPE SERIES**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
RO		-24 [245] - 10.6 -24 [245]	XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Horizontal PCB mount, Bulk Pack	Latching	ACJC6H BULK
RO		24 [.945"]     30/EMAIL: CHART     40x     10	XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC6HL BULK
80		-24 [949] - 10.6 -3.5 [.197] [417] - SCHEMAIN CHART 	XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Vertical PCB mount, Bulk Pack	Latching	ACJC6V BULK
	27 [1065] 20 [797] (1061) (100] (100] (100] (100] (100]	24 [945] 55 [187] 50 [187] 402 88 402 88 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC6VL BULK
		-24 [2497] 4.5 [1777] 4.5 [1	XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Solder Contacts, Bulk Pack	Latching	ACJC6S BULK
		24 [945"] 45 [177] 508MAIL CHART 402 NR 100 0 100 0	XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Solder Contacts, Bulk Pack	Non-latching, Retention Spring	ACJC6SL BULK
RO		24 [945'] 10.6 [417] SOEMAIL CHART 402 × 88 0 3 0 3 0 3 0 3 0 3 0 3 0 3 0 3	XLR 3 pole female receptacle with 1/4" switching stereo jack, Horizontal PCB mount, Bulk Pack	Latching	ACJC9H BULK
RO	27 [1063] 20 [777] (1063] (1063) (1067) (107)	-24 [.945"] → SOHEWATIC CHART HOS NUP HOS NUP → Control (Chart) →	XLR 3 pole female receptacle with 1/4" switching stereo jack, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC9HL BULK



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#### **THERMOPLASTIC C TYPE SERIES**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
<b>RO</b>		24 [945] -35 [136] -35 [136] -	XLR 3 pole female receptacle with 1/4" switching stereo jack, Vertical PCB mount, Bulk Pack	Latching	ACJC9V BULK
RO		-24 [345] -55 [139] 	XLR 3 pole female receptacle with 1/4" switching stereo jack, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC9VL BULK
		44 [945] 45 [1777] 417] 405 50550410 CHARI 405 505 505 505 505 505 505 505	XLR 3 pole female receptacle with 1/4" switching stereo jack, Solder Contacts, Bulk Pack	Latching	ACJC9S BULK
50			XLR 3 pole female receptacle with 1/4" switching stereo jack, Solder Contacts, Bulk Pack	Non-latching, Retention Spring	ACJC9SL BULK
RO		24 [345"] [106] (417] SCHMARC CHARI 403 28 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Horizontal PCB mount, Bulk Pack	Latching	ACJC10H BULK
RO		24 [945] SCHEMATIC CHART HCX NUE C S M O 1 C S M O 2 C S M O	XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC10HL BULK
RO		24 [940] - 10,6 -25 [1387] - 14/7] - SCHEMATIC CHART 402 248 - 25 [1387] - 14/7] - 25 CHART CHART - 25 CHART CHART CHART CHART - 25 CHART CHART CHART CHART CHART CHART - 25 CHART C	XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Vertical PCB mount, Bulk Pack	Latching	ACJC10V BULK
RO		24 [945] 45 [177] 5558MAIC CHART 45 [177] 403 NB 0 3 0 3 0 3 0 3 0 3 0 3 0 3 0 3	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

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#### THERMOPLASTIC C TYPE SERIES

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Solder Contacts, Bulk Pack	Latching	ACJC10S BULK
		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
CC		XLR 3 pole female receptacle with 1/4" jack, Solder Contacts, Overmoldable Connector Housing	Latching and Non-latching options avaliable	ACJC9M BULK

### PART NUMBER BREAKDOWN

U. Contraction of the state of UCHIG HEIBHSH CONTACT OFTIONS COMMETOR THE SERIES PRETIV PACHAGING AC SERIES THERMOPLASTIC C TYPE 5 **BULK** Н E. G. ACJC5HL BULK AC JC L AC (Series Prefix), JC Jack/Connector XLR, 5 Mono, Horizontal Printed Circuit Board, Latchless, Bulk Packaged. SERIES PREFIX AC Series Prefix = **CONNECTOR TYPE** JC = Jack / Connector XLR CONTACT OPTIONS 5 Mono, Non Switching, = XLR Grounded Stereo, Non Switching, 6 \_ XLR Grounded 9 Stereo, Switching, = XLR Grounded 10 = Stereo, Switching, XLR with Ground Switch CONTACT/ ۷ = Vertical Printed Circuit Board HOUSING TYPE Н Horizontal Printed Circuit Board = S = Solder Contacts Μ **Overmoldable Connector Housing** = LOCKING Blank = Latching MECHANISM L = Latchless PACKAGING Blank Individual Bags = BULK **Bulk Packed** =

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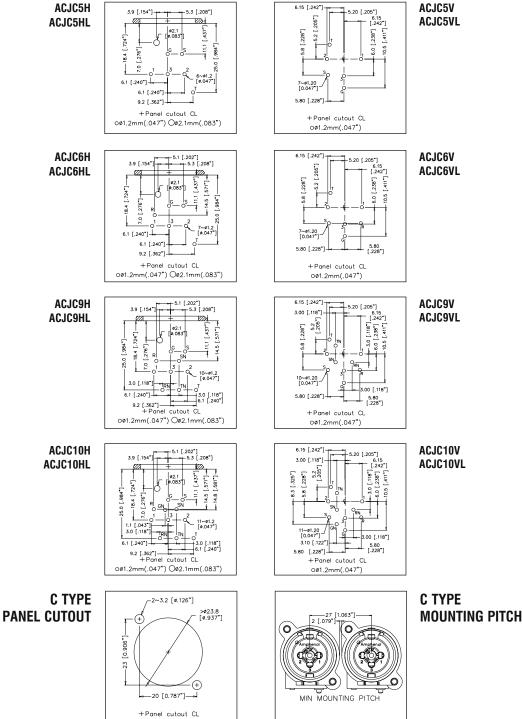
AC SERIES CHASSIS CONNECTORS

### THERMOPLASTIC C TYPE SERIES

# Amphenol

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

ACJC5H



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### **STANDARD DATA C TYPE CHASSIS RECEPTACLES**

		VALUE					
GENERAL Characteristics	Number of contacts	5, 6, 9 or 10					
CHARACTERISTICS	Termination	Printed Circuit Board (PCB) or Solder Bucket					
	Flammability	UL 94HB					
ELECTRICAL	Service Voltage RMS	50V					
CHARACTERISTICS	Test Voltage AC RMS	1500V					
	Current carrying capacity	7.5A					
	Typical Contact Resistance	≤50mΩ					
	Insulation Resistance (initial)	> 0.5GΩ					
	Insulation Resistance (after damp heat test)	> 0.2GΩ					
CLIMATIC	Protection Class	IP40					
CHARACTERISTICS	Operating Temperature	-25°C to +70°C					
MECHANICAL	Weight**	14g (0.030lb)					
CHARACTERISTICS	Retention Spring separating force	≥20N					
	Mounting Hole torque max.	1.5Nm					
	Mechanical Operations	1500 mating cycles					
	Fastening	Self-Tapping PT screw with thread 2.9 x 1.06 and of Tri-rondular configuration					
MATERIALS	Connector Shell	PA6.6 + 20% glass fibre reinforced, UL 94HB					
	Shell Finish	Black					
	Insulators	PA6.6 + 20% glass fibre reinforced, UL 94HB					
	XLR Contact						
	Material	Bronze					
	Plating	Gold over Nickel plated					
	Jack Contact						
	Material	Brass					
	Plating	Silver over Copper plated					
	Latch lock and Spring	Nickel Plated					
	Ground element	Silver over Copper plated					

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

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Rev 3- 12/2009



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

### **Features**

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

#### **Options**

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

#### **Ordering Codes**

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

### AC SERIES XLR THERMOPLASTIC CHASSIS MOUNT CONNECTORS

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



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

### THERMOPLASTIC D TYPE FLANGE



#### Features:

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

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

Part Number Breakdown: Page 59 Specifications: Page 65 PCB Footprints: Page 66 Panel Cutouts: Page 66

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches) DES		DESCRIPTION	VARIATIONS	PART NUMBER
	₩19.0 [.748'] ₩		XLR 3 pole male,	Standard	AC3MDP
165	-1.945'1 0.45' 		D Flange, Thermoplastic shell,	Bulk Pack	AC3MDP BULK
			Solder Buckets	Non-Latching	AC3MDPL
and the second sec	2~Ø3. (Ø.130	3 1 1 1 1 1 1 1 1 1 1 1 1 1		Non-Latching Bulk	AC3MDPL BULK
	-19.0 [.748*]-		XLR 3 pole male,	Standard	AC3MMDP
10	24.0 (.943-1		D Flange, Airtight Thermoplastic shell,	Bulk Pack	AC3MMDP BULK
		ĭ_Ц⊯r=q	Machined Contacts, Solder Buckets	Non-Latching	AC3MMDPL
	2-03	H-21.8 (.858*)H		Non-Latching Bulk	AC3MMDPL BULK
			XLR 3 pole female,	Standard	AC3FDP
			D Flange, Thermoplastic shell,	Bulk Pack	AC3FDP BULK
	30 I 016		Solder Buckets	Non-Latching	AC3FDPL
	2-ø3. 	3 3 3 3 3 3 3 3 5.0 [.197'] 		Non-Latching Bulk	AC3FDPL BULK
			XLR 3 pole male,	Standard	AC3MDPH
19/00		5 (0.313.)	D Flange, Thermoplastic	Bulk Pack	AC3MDPH BULK
NO.			shell, Horizontal PCB mount	Non-Latching	AC3MDPHL
	26.0 (1.024')	3.3 30°]		Non-Latching Bulk	AC3MDPHL BULK
S. NET	PUSH 7.0 [27]		XLR 3 pole female,	Standard	AC3FDPH
	-1.3451	-6525 (69)131. -6601	D Flange, Thermoplastic	Bulk Pack	AC3FDPH BULK
	310 1		shell, Horizontal PCB mount	Non-Latching	AC3FDPHL
	26.0 (1.024*)			Non-Latching Bulk	AC3FDPHL BULK
	+19.0 [.748*]+		XLR 3 pole male,	Standard	AC3MDPV
AP AT	-1.5461 (542.1-		D Flange, Thermoplastic shell,	Bulk Pack	AC3MDPV BULK
			Vertical PCB mount	Non-Latching	AC3MDPVL
			Non-Latching Bulk	AC3MDPVL BULK	
	PUSH 7.5 L297	5.2 (206')	XLR 3 pole female,	Standard	AC3FDPV
1200			D Flange, Thermoplastic shell,	Bulk Pack	AC3FDPV BULK
			Vertical PCB mount	Non-Latching	AC3FDPVL
				Non-Latching Bulk	AC3FDPVL BULK



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AC SERIES CHASSIS CONNECTORS

## Amphenol

### THERMOPLASTIC D TYPE FLANGE

### PART NUMBER BREAKDOWN

THERMOPLASTIC D TYPE FLANGE

	contacts, M		I Shell), <b>P</b> (Thermoplastic Chassis series) I (Gold Plated Contacts), <b>Bulk</b> Packaged.
	1		
SERIES PREFIX	AC	=	Series Prefix
CONTACT LAYOUT	3	=	3 Contacts only
GENDER	F	=	Female Socket Contacts
	М	=	Male Pin Contacts
	MM	=	Male Machined Contacts
SHELL STYLE	D	=	Small Shell
SHELL SERIES	Р	=	Thermoplastic Chassis Series
TERMINATION	Blank	=	Solder Buckets
	v	=	Vertical Printed Circuit Board
	н	=	Horizontal Printed Circuit Board
LOCKING	Blank	=	Latching
MECHANISM	L	=	Latchless (Non-Latching)
CONTACT PLATING	Blank	=	Standard Plating (Silver or Tin - Refer to Standard Data.)
	AU	=	Gold Plated Contacts
PACKAGING	Blank	=	Individual Bags
	BULK	=	Bulk Packed
	1		

### THERMOPLASTIC P TYPE FLANGE



#### Features:

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

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

### Part Number Breakdown: Page 61Specifications: Page 65PCB Footprints: Page 66Panel Cutouts: Page 66

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			XLR 3 pole male, Wide Flange,	Standard	AC3MPP
19/00	-260 [10247]		Thermoplastic shell, Solder Buckets	Bulk Pack	AC3MPP BULK
		i_llp=r=1	Solder Buckets	Non-Latching	AC3MPPL
	27.0 (1.063*) - 90*TD	[0.131'] CSK		Non-Latching Bulk	AC3MPPL BULK
	16.6 (.654') -	7.0 (277') <del> </del>	XLR 3 pole female, Wide Flange,	Standard	AC3FPP
A900	-660 (10247) -00 -00 -00 -00 -00 -00 -00 -00 -00 -0		Thermoplastic shell, Solder Buckets	Bulk Pack	AC3FPP BULK
			Soluel Duckets	Non-Latching	AC3FPPL
and the second s		(#.131') CSK = 5.0 [197'] #5.7(#0.224') = 21.8 [.858'] =		Non-Latching Bulk	AC3FPPL BULK
			XLR 3 pole male, Wide Flange,	Standard	AC3MPPH
49/55		-(-6)6 *)	Thermoplastic shell. Horizontal	Bulk Pack	AC3MPPH BULK
			PCB mount	Non-Latching	AC3MPPHL
and the second sec	27.0 (1.063')	-2.7 (.106·1		Non-Latching Bulk	AC3MPPHL BULK
	- 16.6 L654r] - 7.0 L2	277']- <del> </del>	XLR 3 pole female, Wide Flange,	Standard	AC3FPPH
- Course	26.0 (1.024'1 26.0 (1.024'1 0 0 0 1.04'1 36.8 (1.149'1	esize (e.913-1- to tristria	Thermoplastic shell, Horizontal	Bulk Pack	AC3FPPH BULK
			PCB mount	Non-Latching	AC3FPPHL
a second	27.0 (1.063')			Non-Latching Bulk	AC3FPPHL BULK
	16.6 [.654*]		XLR 3 pole male,	Standard	AC3MPPV
4900	- 100 m m m m m m m m m m m m m m m m m m		Wide Flange, Thermoplastic shell, Vertical PCB mount	Bulk Pack	AC3MPPV BULK
		Non-Latching	AC3MPPVL		
	27.0 (1.063']			Non-Latching Bulk	AC3MPPVL BULK
	16.6 [654+] - 7.0 [. [0] PUSH	277']	XLR 3 pole female,	Standard	AC3FPPV
490	-000 000 000 000 000 000 000 000 000 00		Wide Flange, Thermoplastic shell, Vertical PCB mount	Bulk Pack	AC3FPPV BULK
	36		Ventical FOD INDUNE	Non-Latching	AC3FPPVL
and the second se				Non-Latching Bulk	AC3FPPVL BULK

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AC SERIES CHASSIS CONNECTORS

# Amphenol

### THERMOPLASTIC P TYPE FLANGE

### PART NUMBER BREAKDOWN

THERMOPLASTIC P TYPE FLANGE

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

#### **THERMOPLASTIC TYPE - IDC**



The Insulation Displacement Contact (IDC) connector is ideal for Original Equipment Manufacturers and end users alike and offers an alternative to our standard solder connector. Connectors can be can be quickly and easily assembled without screws or a soldering iron – by hand. Labour savings of up to 60% in termination time can be achieved. **Recommended Cable Specifications: Page 65** 

#### Features:

- Thermoplastic Shell.
  Optional "D", "P" or Dual Housing flange sizes.
  Insulation Displacement Contacts (IDC)

- Stamped contacts.
  Leading first mate last break socket contact.
- Positive latch lock system.
- · Coloured housings available as specials.

Options: Gold plated contacts, Bulk Pack, Latching or Non-latching Part Number Breakdown: Page 64 Specifications: Page 65 Assembly Instructions: Page 67 Panel Cutouts: Page 66

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	+19.0 [.748*]+		XLR 3 pole male, D Flange, IDC contacts,	Standard	AC3MDPI
10			Thermoplastic shell	Bulk Pack	AC3MDPI BULK
	26.0 [1.024*]	ø3.3 → 5.0 [197'] 130'] → 30.0 [1.181'] →		Non-Latching	AC3MDPIL
				Non-Latching Bulk	AC3MDPIL BULK
	PUSH	r - 7.5 [297']	XLR 3 pole female, D Flange, IDC contacts,	Standard	AC3FDPI
	-LORET 016		Thermoplastic shell	Bulk Pack	AC3FDPI BULK
	26.0 [1.024*] 26.0	#3.3 → 1.50 (.197') 130'] → 30.0 (1.181') →		Non-Latching	AC3FDPIL
				Non-Latching Bulk	AC3FDPIL BULK
			XLR 3 pole male, Wide Flange, IDC contacts,	Standard	АСЗМРРІ
10	- 26.0 f(1024')		Thermoplastic shell	Bulk Pack	AC3MPPI BULK
	27.0 [1.063']			Non-Latching	AC3MPPIL
				Non-Latching Bulk	AC3MPPIL BULK
5000	XLR 3 pole female, Wide Flange, IDC contacts, Thermoplastic shell	Wide Flange,	Standard	AC3FPPI	
				Bulk Pack	AC3FPPI BULK
	2-83.34 -270 (1063') - 270 (1063')			Non-Latching	AC3FPPIL
				Non-Latching Bulk	AC3FPPIL BULK



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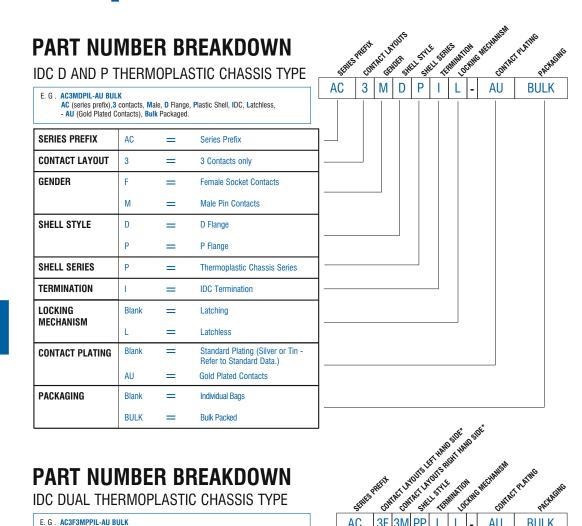
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### **THERMOPLASTIC TYPE - IDC**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
<b>.</b>	40.0 (1.575')		XLR 3 pole male + 3 pole male, Dual Flange, IDC contacts, Thermoplastic shell	Latching Non-Latching	AC3M3MPPI AC3M3MPPIL
	40.0 [1.575"		XLR 3 pole female + 3 pole male, Dual Flange, IDC contacts, Thermoplastic shell	Latching Non-Latching	AC3F3MPPI AC3F3MPPIL
	40.0 [1.575*		XLR 3 pole female + 3 pole female, Dual Flange, IDC contacts, Thermoplastic shell	Latching Non-Latching	AC3F3FPPI AC3F3FPPIL
	40.0 [1.575*		XLR 3 pole male + 3 pole female, Dual Flange, IDC contacts, Thermoplastic shell	Latching Non-Latching	AC3M3FPPI AC3M3FPPIL



#### **THERMOPLASTIC TYPE - IDC**



### PART NUMBER BREAKDOWN

			REAKDOWN C CHASSIS TYPE		SERIF	PREFIX	HACTLA	OUTS INT	STATE	HT HANN	NG MECHAN	JONTACI P	ĥ
E. G . AC3F3MPPIL-AU B AC (series prefix),3 Latchless,- AU (Gol	Female, 3Ma		Thermoplastic Chassis series), IDC, Packaged.		AC	3F	3M	PP		L -		J	
SERIES PREFIX	AC	=	Series Prefix										
CONTACT LAYOUT	3F	=	3 Female Socket Contacts only										
LEFT HAND SIDE <sup>3)</sup>	ЗМ	=	3 Male Pin Contacts only										
CONTACT LAYOUT	3F	=	3 Female Socket Contacts										
RIGHT HAND SIDE <sup>3</sup>	ЗМ	=	3 Male Pin Contacts										
SHELL STYLE	PP	=	Dual Thermoplastic Chassis Series										
TERMINATION	1	=	IDC Termination										
LOCKING	Blank	=	Latching										
MECHANISM	L	=	Latchless										
CONTACT PLATING	Blank	=	Standard Plating (Silver or Tin - Refer to Standard Data.)										
	AU	=	Gold Plated Contacts										
PACKAGING	Blank	=	Individual Bags										
	BULK	=	Bulk Packed										_

3) Viewed from front of connector

### Amphenol **STANDARD DATA AC CHASSIS - THERMOPLASTIC**

**STANDARD DATA** 

		VALUE					
GENERAL	Number of contacts	3					
CHARACTERISTICS	AC Series Contact Arrangements (Front view of pin inserts)						
	Termination	Solder / IDC / Printed Circuit Board (PCB)					
	Wire Gauge - Stranded wire:						
	IDC	24AWG					
	Solder	12AWG					
	Printed Circuit Board (PCB)	N/A					
	Flammability	UL94V-0					
	Environmental	Complies with RoHS Directive 2002/95/EC					
ELECTRICAL Characteristics	Service Voltage RMS	133V <sup>1)</sup>					
UNARAU I ERISTIUS	Test Voltage AC RMS	1400V					
	Current carrying capacity: IDC Solder	1A 15A					
	Printed Circuit Board (PCB)	15A					
	Typicial Contact Resistance	≤3mΩ					
	Insulation Resistance	≥1000MΩ					
CLIMATIC Characteristics	Protection Class	IP40					
	Operating Temperature	-25°C to +75°C (-13°F to +167°F)					
MECHANICAL Characteristics	Weight <sup>2)</sup>	14g - (0.030lb)					
	Mechanical Operations	1000 mating cycles					
MATERIALS	Connector Shell - Thermoplastic	Thermoplastic, ULV94V-0 Modified PPE Resin					
	Shell Finish	Black, other colours available - contact factory					
	Insulators	ULV94V-0 PBT Resin or Modified PPE Resin					
	Male Contact Stamped IDC-Material/Plating Stamped Solder and PCB-Material/Plating	Phosphor Bronze / Silver or Gold (optional) Phosphor Bronze / Silver or Gold (optional)					
	Female Contact Stamped IDC-Material/Plating Stamped Solder and PCB-Material/Plating	Phosphor Bronze / Tin or Gold (optional) Phosphor Bronze / Tin or Gold (optional)					
IDC RECOMMENDED CABLE DIMENSIONS	A - 0D Ø1.50⇒1.30mm (Ø0.06⇒0.05") B - 16/.005" (24 AWG stranded wire) Thermoplastic Elastomer	(A) High Molecular Weight Polyehylene Min 90% Coverage 56/.005" (36 AWG)					

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

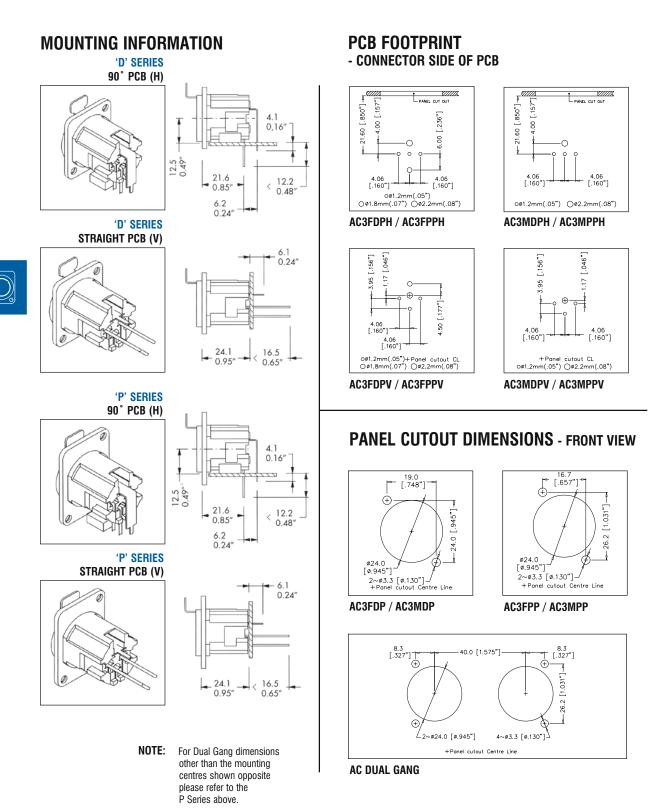
<sup>2)</sup> Approximate weight in grams does not include packaging. Please contact us for exact weight for shipping purposes.

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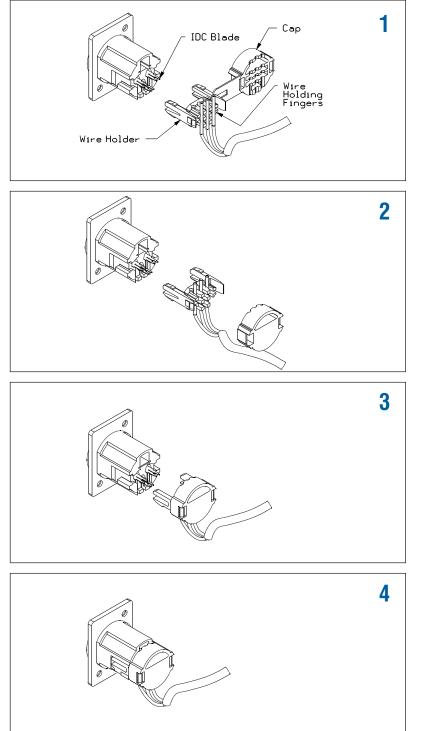
THERMOPLASTIC SHELL TYPE

### **Amphenol** AC SERIES RECEPTACLES THERMOPLASTIC





### AC IDC SERIES CHASSIS ASSEMBLY INSTRUCTIONS



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

AC SERIES CHASSIS CONNECTORS

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



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

Ensure wire holder snaps into the body.

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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.

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

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

#### **Features**

- High current contacts for distortion free signal.
- Tough, durable zinc diecast shell for the EP series.
- Cost effective durable thermoplastic shell for the AP and SP series.
- EP series available in 3, 4, 5, 6 and 8 contact arrangements
- AP series available in 4, 5, 6, and 8 contact arrangements.
- SP series available in 2 and 4 contact arrangements.

- EP series 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.
   Options
- Solder termination / Tab or Printed Circuit Board versions
- Nickel Plated Zinc Alloy shell (EP Series)
- Black finished Zinc Alloy shell (EP Series)
- · Precision machined contacts
- Thermoplastic shell (EP/SP Series)

### **Ordering Codes**

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

#### **HIGH POWER / LOUDSPEAKER CONNECTORS**

### HIGH POWER AND LOUDSPEAKER CONNECTORS

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

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

### **SP LOUDSPEAKER CONNECTORS**

**Specifications: Page 73** 



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 conncetors are available in industry standard PCB footprints with solder tabs.

### Features:

- 2 or 4 pole
- Solder tabs
- Vertical or Horizontal PCB contacts · Various mounting hole options
- 30A Current rating
- Coloured Housings
- · Industry standard mating Part Number Breakdown: Page 71

**PCB Footprints: Page 72** 

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	COLOUR	PART NUMBER
6		292 (0.0599) (0.0599) (0.0599) (0.0599) (0.0599) (0.0597)	2 pole, D flange, Thru holes, Solder tabs 3/16"	Black	SP-2-MD
6		25 (0999)	2 pole, D flange, Thru holes, Horizontal PCB	Black	SP-2-MDH
6		25 (0.0397)	2 pole, D flange, Thru holes, Vertical PCB	Black	SP-2-MDV
<b>(6</b> )		282 (1.10 <sup>-1</sup> ) (1.10 <sup>-1</sup> ) (0.16 <sup>-1</sup> ) (0.16 <sup>-1</sup> ) (0.16 <sup>-1</sup> ) (0.16 <sup>-1</sup> ) (0.16 <sup>-1</sup> ) (0.16 <sup>-1</sup> )	4 pole, D flange, Thru holes, Solder tabs 3/16"	Black	SP-4-MD
<b>(6</b> ,		25 (1)77 (1)77	4 pole, D flange, Thru holes, Solder tabs 3/16"	Grey	SP-4-MD-8
6		262 (1.10°) (1.10°) (1.10°) (0.16°)	4 pole, D flange, Self Tapping holes, Solder tabs 3/16"	Black	SP-4-MDT

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EP / AP / SP SERIES

#### **SP LOUDSPEAKER CONNECTORS**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	COLOUR	PART NUMBER
			4 pole, D flange, Thru holes, Horizontal PCB	Black	SP-4-MDH
10		10224-1 1024-1 1024-1 1024-1 10	4 pole, D flange, Self Tapping holes, Horizontal PCB	Grey	SP-4-MDHT-8
10		25 (0224) 524)	4 pole, D flange, Self Tapping holes, Horizontal PCB	Black	SP-4-MDHT
6		25 (198-) (197-) (197-) (197-) (197-) (197-)	4 pole, D flange, Thru holes, Vertical PCB	Black	SP-4-MDV
(0.		25 (0098')	4 pole, D flange, Thru holes, Vertical PCB	Red	SP-4-MDV-2
0	260 (10241) (10241) (10241) (10241) (10241) (10241) (10241) (10241) (10241)	25 10098'1 25 10098'1 25 10098'1 25 1007'1 25 10 1007'1 25 1007'1	4 pole, D flange, Self Tapping holes, Vertical PCB	Grey	SP-4-MDVT-8

### **SP LOUDSPEAKER CONNECTORS**

### PART NUMBER BREAKDOWN

SP SERIES

			nnector), D (D Shell), Horizontal Printed 8 (Grey), Bulk Packaged.
ERIES PREFIX	SP	=	Series Prefix
CONTACT LAYOUT	2	=	2 Contacts
	4	=	4 Contacts
GENDER	М	=	Chassis Connector
SHELL STYLE	D	=	Standard 'D' Type flange
TERMINATION	Blank	=	Solder tabs - 3/16" terminals
	V	=	Vertical Printed Circuit Board
	н	=	Horizontal Printed Circuit Board
MOUNTING HOLE	Blank	=	Thru Hole
	Т	=	Self Tapping
CONTACT PLATING	Blank	=	Black
	2	=	Red
	8	=	Grey
PACKAGING	Blank	=	Individual Bags
	В	=	Bulk Packed

EP AP

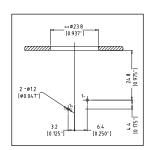
EP / AP / SP SERIES

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**SP LOUDSPEAKER CONNECTORS** 

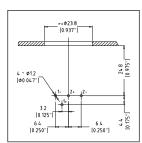
### **SP SERIES**

SP-2-MDH





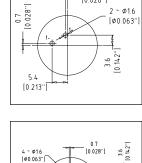
SP SERIES PANEL CUTOUT



19.0 [0.748"]

Ø24.0 [Ø0.945 Ø3.4 [Ø0.134\*\*

24.0 [0.945"]



0.7

5.4 [0.213"] 0.7 [0.028"]

> 0.7 [0.028" 3.6 [0.14.2"]

[0.213"]

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

SP-2-MDV

(HAP)

EP / AP / SP SERIES

**SP LOUDSPEAKER CONNECTORS** 

### **STANDARD DATA SP SERIES CHASSIS CONNECTORS**

		VALUE	
GENERAL	Number of contacts	2 or 4	
CHARACTERISTICS	Termination	Printed Circuit Board (PCB) or Solder Tabs 3/16"	
	Flammability	UL94HB	
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	IP54	
CHARACTERISTICS	Operating Temperature	-25°C to +75°C	
MECHANICAL Characteristics	Weight**	12g (0.026lb)	
CHARACTERISTICS	Mechanical Operations	5000 mating cycles	
	Fastening	M3 screw	
MATERIALS	Connector Shell	PA66 GF20	
	Insulators	PA66 GF20	
	Contact		6
	Material	Phosphor Bronze	
	Plating	Silver	å

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

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

EP

EP / AP / SP SERIES

### **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. **Panel Cutouts: Page 78**

#### **Specifications: Page 77-78**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			EP Male cable connector,	3 pole nickel finish	EP-3-12
		ø28:9 [ø1:138"	Machined contacts, Metal Shell	3 pole black finish	EP-3-12B
	64.0 [2.			4 pole nickel finish	EP-4-12
	►85.5 [3.366"]	d		4 pole black finish	EP-4-12B
		Crcable	CLAMP (BUSHING	5 pole nickel finish	EP-5-12
	PIN INSULATOR		TD.	5 pole black finish	EP-5-12B
ISO ASSEMBLY OF			6 pole nickel finish	EP-6-12	
				6 pole black finish	EP-6-12B
				8 pole nickel finish	EP-8-12
				8 pole black finish	EP-8-12B
				3 pole nickel finish	EP-3-11P
		66.8 (2.63*) 88.0 (3.465*)	connector, Machined contacts, Metal Shell	3 pole black finish	EP-3-11PB
				4 pole nickel finish	EP-4-11P
	88.0 [3.465			4 pole black finish	EP-4-11PB
		CABLE CLI		5 pole nickel finish	EP-5-11P
	PIN INSULATOR			5 pole black finish	EP-5-11PB
ISO ASSEMBLY OF EP FEMALE			6 pole nickel finish	EP-6-11P	
	Contraction of the second seco			6 pole black finish	EP-6-11PB
				8 pole nickel finish	EP-8-11P
				8 pole black finish	EP-8-11PB

(EP AP

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www.amphenolaudio.com

EP / AP / SP SERIES

**EP METAL TYPE - SOLDER** 

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		ſ	EP Male chassis mount, Round Flange,	3 pole nickel finish	EP-3-14
-			Machined contacts, Metal Shell	3 pole black finish	EP-3-14B
		[148]		4 pole nickel finish	EP-4-14
0	29.2 [1.148"] -			4 pole black finish	EP-4-14B
	∞	→ 31.8 [1.252"]→		5 pole nickel finish	EP-5-14
				5 pole black finish	EP-5-14B
				6 pole nickel finish	EP-6-14
				6 pole black finish	EP-6-14B
				8 pole nickel finish	EP-8-14
				8 pole black finish	EP-8-14B
2		EP Female chassis mount, Round Flange,	3 pole nickel finish	EP-3-13P	
100			Machined contacts, Metal Shell	3 pole black finish	EP-3-13PB
(, .)				4 pole nickel finish	EP-4-13P
	AMPHENOL - 29.2 (1.148*) -			4 pole black finish	EP-4-13PB
	ø50.8 [2']	→ 36.5 [1.438 <sup>*</sup> ] →		5 pole nickel finish	EP-5-13P
				5 pole black finish	EP-5-13PB
				6 pole nickel finish	EP-6-13P
				6 pole black finish	EP-6-13PB
				8 pole nickel finish	EP-8-13P
				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 HousingsHigh current contacts
- Male & Female Cable and Chassis connectors available.
- Specifications: Page 77-78

Panel Cutouts: Page 78

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			AP Male cable	4 pole	AP-4-12
and a little and			connector, Machined contacts,	5 pole	AP-5-12
8			Thermoplastic Black shell.	6 pole	AP-6-12
	L100.0 [3.937*]—	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		8 pole	AP-8-12
			AP Female cable connector,	4 pole	AP-4-11
and the second		Ø28.8 [1.132*]	Machined contacts, Thermoplastic	5 pole	AP-5-11
CE3			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
		-10.6 [1.204"]→	Round Flange, Machined contacts,	5 pole	AP-5-14
			Thermoplastic Black shell.	6 pole	AP-6-14
	-29.2 [1.15"]			8 pole	AP-8-14
		7.5 (295')	AP Female chassis mount, Round Flange, Machined contacts, Thermoplastic Black shell.	4 pole	AP-4-13
° ( )				5 pole	AP-5-13
				6 pole	AP-6-13
•	لمحـ29.2 [1.148"]	2.8 [.11 <sup>*</sup> ] 	Diack Sileii.	8 pole	AP-8-13
			AP Male chassis mount,	4 pole	AP-4-22
100	262 [1,148]	•32.4 [91.276 <sup>°</sup> ]→ 	Rectangular Flange, Machined contacts,	5 pole	AP-5-22
			Thermoplastic Black shell.	6 pole	AP-6-22
a summer of				8 pole	AP-8-22
5.0			AP Female chassis mount,	4 pole	AP-4-21
° ( • • )	00 (1.1897)-	-(1927) -(1927) -(1920) -(1920)	Rectangular Flange, Machined contacts, Thermoplastic Black shell.	5 pole	AP-5-21
				6 pole	AP-6-21
125			טומטת סווסוו.	8 pole	AP-8-21

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**STANDARD DATA** 

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

				VALUE		
GENERAL	Number of contacts	3	4	5	6	8
CHARACTERISTICS	Contact Arrangements (Front view of pin insert)					
	Termination			SOLDER		
	Wire Gauge - Stranded wire:	12AWG	12AWG	12AWG	12AWG	14AWG
	Flammability			UL94V-0	-	
	Environmental		Complies w	ith RoHS Directive	2002/95/EC	
ELECTRICAL	Service Voltage RMS <sup>1)</sup>	460V	660V	200V	200V	100V
CHARACTERISTICS	Test Voltage AC RMS	2400V	3000V	1600V	1600V	1300V
-	Current carrying capacity	20A	20A	20A	20A	15A
	Typicial Contact Resistance	≤3mΩ				
	Insulation Resistance			≥1000MΩ		
CLIMATIC	Protection Class			IP40		
CHARACTERISTICS	Operating Temperature		-25°C to	) +75°C (-13°F to	+167°F)	
MECHANICAL	Weight - EP 11 & 12 <sup>2)</sup>	80g	84g	86g	86g	86g
CHARACTERISTICS		(0.176lb)	(0.185lb)	(0.189lb)	(0.189lb)	(0.189lb)
	Weight - EP 13 & 14 <sup>2)</sup>	48g	50g	54g	54g	54g
		(0.105lb)	(0.110lb)	(0.119lb)	(0.119lb)	(0.119lb)
	Weight - AP 11 & 12 <sup>2)</sup>	N/A	42g	44g	44g	44g
			(0.092lb)	(0.097lb)	(0.097lb)	(0.097lb)
	Weight - AP 13, 14, 21 & 22 <sup>2)</sup>	N/A	26g	30g	30g	28g
			(0.057lb)	(0.066lb)	(0.066lb)	(0.061lb)
	Typical Cable retention force	22Kg to	44Kg (50lb to 100	lb) - Dependant on	cable material and	diameter
	Mechanical operations			1000 mating cycle	S	

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

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

**STANDARD DATA** 

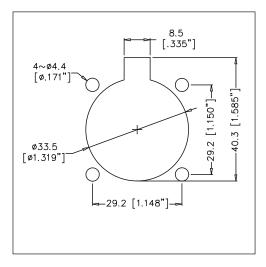
### STANDARD DATA EP/AP (CONT'D)

		DET	AILS			
MATERIALS	ТҮРЕ	АР	EP			
	Connector shell	Modified PPE Resin	Diecast Zinc Alloy			
	Shell finish	Black	Satin Nickel or Black			
	Insulators	UL94V-0 PBT Resin				
	Cable Bushing	Silicon Rubber	UL94 HB Thermoplastic Elastomer			
	Male contact Machined - Solder					
	Material / Plating	Brass / E	Bright Tin			
	Female contact Machined - Solder					
	Material / Plating	Brass / F	Bright Tin			
	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			

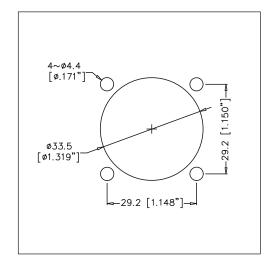
(EP)

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

#### EP 13/AP 13/AP 21



EP 14/AP 14/AP 22



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- 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
The second se	60.4 [2.378*]	XLR 3 pole male to 3	Nickel Finish	AC3M3MW
	ANPHENOL 019.0 (6.748')	pole male adapter, Pre wired, Metal Shell	Black Finish	AC3M3MBW
		XLR 3 pole female to 3 pole female adapter,	Nickel Finish	AC3F3FW
		Pre wired, Metal Shell	Black Finish	AC3F3FBW
	AMPHEMOL (619.0 (6.746°)	XLR 3 pole female to 3 pole male adapter,	Nickel Finish	AC3F3MW
	60.4 [2.378 <sup>+</sup> ]	Pre wired, Metal Shell	Black Finish	AC3F3MBW
	0         0	XLR 3 pole female to 5 pole male adapter, Pre wired, Metal Shell	Nickel Finish	AC3F5MW
	625 [246']	XLR 3 pole male to 5 pole female adapter, Pre wired, Metal Shell	Nickel Finish	AC3M5FW
		XLR 5 pole male to 5 pole male adapter, Pre wired, Metal Shell	Nickel Finish	AC5M5MW
		Termination Tool	For IDC and Solder cable connectors	T2860
ALL AND		Termination Tool	For AC Series Right Angle cable connectors	T2880
		Termination Tool	For AX Series cable connectors	T2890
~		A Type / C Type Connector Mounting, Self-Tapping Screw	2.9 x 1.06 Tri-rondular	52500002-734
8		B Type Connector Mounting, Self-Tapping Screw	M2.5	52500005-732

AC SERIES

ACCESSORIES

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		AX Series	Brown	AX-BOOT-1
		Coloured Boot	Red	AX-BOOT-2
			Orange	AX-BOOT-3
	¥		Yellow	AX-BOOT-4
			Green	AX-BOOT-5
	Ø 517 (83)		Blue	AX-BOOT-6
			Violet	AX-BOOT-7
	39.0 [1.54]		Grey	AX-BOOT-8
			White	AX-BOOT-9
			Black	AX-BOOT
			Clear	AX-BOOT-CLR
		AC Coloured	Brown	AC-NUT-BRN
	49.5 [1.949"]	Boot / Backshell	Red	AC-NUT-RED
			Orange	AC-NUT-ORG
-			Yellow	AC-NUT-YEL
	\$20.5 [6,795		Green	AC-NUT-GRN
	86	Note: Number	Blue	AC-NUT-BLU
	l I	Identification optional. (Please contact us.)	Violet	AC-NUT-VIO
		(Fiedse contact us.)	Grey	AC-NUT-GRY
			White	AC-NUT-WHT
		15.0 [.591"]	Brown	AC-GROMMET-BRI
			Red	AC-GROMMET-REI
			Orange	AC-GROMMET-OR
	0 0 0 15.0 0 0 0 0 15.0 1.591"]		Yellow	AC-GROMMET-YEL
			Green	AC-GROMMET-GR
			Blue	AC-GROMMET-BLU
•			Violet	AC-GROMMET-VIO
			Grey	AC-GROMMET-GR
			White	AC-GROMMET-WH
		AC Coloured	Brown	AC-RING-BRN
0		Identification Rings	Red	AC-RING-RED
000		– Plain and Numbered	Orange	AC-RING-ORG
0			Yellow	AC-RING-YEL
-	4.9 [.188*] ø17.0 [ø.652*]		Green	AC-RING-GRN
			Blue	AC-RING-BLU
			Violet	AC-RING-VIO
	[.6.85.9.]		Grey	AC-RING-GRY
			White	AC-RING-WHT
	Ø519		Red #1-24	AC-RING-RED-PK1
			Yellow #1-24	AC-RING-YEL-PK1
		Note: Custom number Identification optional.	Blue #1-24	AC-RING-BLU-PK1
		(Please contact us.)	Red #1-48	AC-RING-RED-PK2
			Yellow #1-48	AC-RING-YEL-PK2
			Blue #1-48	AC-RING-BLU-PK2

ACC.

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ACCESSORIES

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	49.5 [1. <u><u><u></u></u> <u><u></u></u> <u><u></u></u> <u><u></u></u> <u></u> <u></u> <u></u> <u></u></u>	.949"]	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

ACC.

NOTE: All accessories comply with RoHS Directive 2002/95/EC NOTE: Please do not refer to this printed catalogue as a colour reference. For exact colours contact your sales representative.



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.

### BNC 75 RF CONNECTORS

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

- 1) Identify the product group listed in Contents on Page 1 and go directly to that page number.
- 2) Each product group cover page then details information and options available.
- Refer to the product detail pages and identify the product you require pictorially.
- 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.

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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	А	112119
			Teflon	E	112952*
		59/ U-20AWG	Delrin	Α	112507
			Teflon	Е	112956*
		11/ U-14AWG/ B8213/ B9292/ B7731/ B1859A	Teflon	D	112606
		6/ 143/ 212	Delrin	Е	112508
	24.5 [.965"] 12.7 [.500"] [.500"] -	B1694A/ B9248	Delrin	Е	112565
	3.7 [.146"]		Teflon	E	112957*
	RECOMMENDED CABLE STRIPPING DIMS.	6 PLENUM/ B1695A	Delrin	Е	112519
			Teflon	E	112958*
		B8281/ B9231/ B9141	Delrin	E	112509
			Teflon	E	112953*
		B1505A	Teflon	E	112951*
		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
TE)	22.6 [.890"] - 14.0 - 22.6 [.890"] - 15.1" - 14.0 - 15.1" -				
	(AT ICR ASSEMBLT) 5.2 [.205"] - 6.8 [.268"] 3.0 [.118"] 2.0 [.079"]	180/ 195/ 122/ B8218/ B1865A/ B1855	Delrin	В	112521
	CABLE STRIPPING DIMS. Assembly Instruction B - page 86		Teflon	F	112955*

Note: \*True 75 ohm.

<u>0</u>

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION & CABLE TYPE RG-/U	INSULATION	CRIMP Tool	PART NUMBER
and the second	015.5 0.12.6 0.12.6 0.12.6 0.12.6 0.12.6 0.12.6 0.12.6 0.12.6 0.12.5 0.12.6 0.12.5	Bulkhead Adapter -Isolated Jack to Jack -	Teflon	N/A	AC-BNC-JJA-75T*
	INSERT WASHER NUT	Straight Bayonet Lock to Bayonet Lock	Toflon	N1/A	
	INSERT WASHER NUT	Bulkhead Adapter -Isolated Jack to Jack - Straight Push on to Bayonet Lock	Teflon	N/A	AC-BNC-PJA-75T*
	Bulkhead Adapter -Isolated, 'D' Shell Housing Jack to Jack,Bayonet Lock to Bayonet Lock, Nickel Finish	Teflon	N/A	AC-BNC-JJ-75*	
39.		Bulkhead Adapter -Isolated, 'D' Shell Housing Jack to Jack,Bayonet Lock to Bayonet Lock, Black Finish	Teflon	N/A	AC-BNC-JJ-75B*
16		Bulkhead Adapter -Isolated, 'D' Shell Housing Jack to Jack, Push on to Bayonet Lock, Nickel Finish	Teflon	N/A	AC-BNC-PJ-75*
	THE TRANSPORT	Bulkhead Adapter -Isolated, 'D' Shell Housing Jack to Jack,Push on to Bayonet Lock, Black Finish	Teflon	N/A	AC-BNC-PJ-75B*
1		Bulkhead Receptacle -Isolated, 'D' Shell Housing Jack to Solder Bucket with Ground Tag, Nickel Finish	Nylon	N/A	AC-BNC-JS-75
		Bulkhead Receptacle -Isolated, 'D' Shell Housing Jack to Solder Bucket with Ground Tag, Black Finish	Nylon	N/A	AC-BNC-JS-75B
N KO		U - Link Centre to Centre - 20.6 mm Note: Custom Sizes available please contact factory.	Teflon	N/A	BNC-U-LINK 75*1

### **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	А	47-10070
2		.178 / .128 / .068	179 / 187 / 180 / 195	В	47-10150
		.429 / .100 / .080	11	D	47-10090
		.324/.255/ .068/.042	6 / 59 / B8281	E	47-10110
		.213/.178 /.068/.042	AT&T 735A, B1855A, B8218	F	47-10120

Note: \*True 75 ohm.

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#### **BNC PATCH PANELS**

### 

#### Features:

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

#### **Options:**

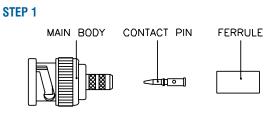
- 1RU, 20 BNC connectors or 2RU, 40 BNC connectors
- Aluminium in Clear or Black anodised
- Steel in Black powder coat
- Customised versions available on request

PRODUCT - FIGURE DRAWING Dimensions in mm (inches) DESCRIPTION	MATERIAL / FINISH	LOADED WITH (refer to page 84 for specifications)	PART NUMBER
1RU 1X20 Patch Panel, Supplied with 1 ID label	Steel / Black	Empty Panel	AC-BNC20M
	Steel / Black	AC-BNC-JJA-75	AC-BNC20MJ75
•	Steel / Black	AC-BNC-PJA-75	AC-BNC20MP75
	Aluminium / Clear	Empty Panel	AC-BNC20A
482 [18.976"] 464.5 [18.287"] TYP 464.5 [18.287"] TYP 50 50 50 50 50 50 50 50 50 50	Aluminium / Clear	AC-BNC-JJA-75	AC-BNC20AJ75
	Aluminium / Clear	AC-BNC-PJA-75	AC-BNC20AP75
20.50 [.807"] TYP	Aluminium / Black	Empty Panel	AC-BNC20B
	Aluminium / Black	AC-BNC-JJA-75	AC-BNC20BJ75
	Aluminium / Black	AC-BNC-PJA-75	AC-BNC20BP75
2RU 2X20 Patch Panel Supplied with 2	, Steel / Black	Empty Panel	AC-BNC40M
ID labels	Steel / Black	AC-BNC-JJA-75	AC-BNC40MJ75
5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 6	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
	Aluminium / Black	Empty Panel	AC-BNC40B
<u>ک</u> 20.50 [.807"] TYP-	] Aluminium / Black	AC-BNC-JJA-75	AC-BNC40BJ75
	Aluminium / Black	AC-BNC-PJA-75	AC-BNC40BP75
Panel ID label	Plastic	Not Applicable	AC-BNC-LABEL

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

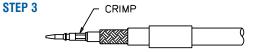
### **ASSEMBLY A**

### ASSEMBLY B

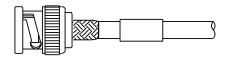


### STEP 2



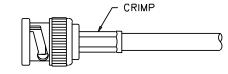


**STEP 4** 



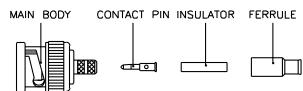
#### STEP 5





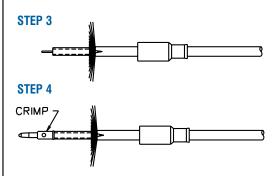
- STEP 1. All parts of the connector are shown. A crimp tool is necessary to complete the connection.
- STEP 2. Strip the cable inner conductor, dielectric, braid, and jacket as per "RECOMMENDED CABLE STRIPPING DIM'S" in catalogue.
- STEP 3. Insert inner conductor into the CONTACT PIN, crimp it with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

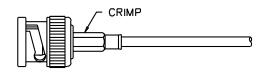


### **STEP 2**





#### **STEP 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.

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**STANDARD DATA** 

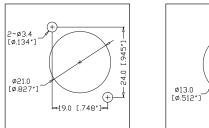
### **STANDARD DATA BNC 75 RF CONNECTORS**

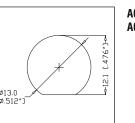
		VA	LUE		
GENERAL Characteristics	Mating	Bayonet Lock			
CHARACTERISTICS	Cable Attachment	Crimp - Crimp			
	Environmental	Complies with RoHS	Directive 2002/95/EC		
ELECTRICAL Characteristics	Impedance	75	δΩ		
CHANACIENISTICS	Frequency Range - Standard	0 - 1 GHz			
	- True 75 Ohm	0 - 4 GHz			
	Voltage Rating	500V RMS			
	Dielectric withstanding voltage	1500 Volts RMS			
	VSWR - Standard	1.05+0.1f(GHz) DC to 1 GHz			
	- True 75 Ohm	1.5+0.1f(GHz) DC to 4 GHz			
	Contact Resistance				
	Centre Contact	1.5 m	illiohm		
	Outer Contact	1.0 m	illiohm		
	Insulation Resisance	5000 M£	ΩΩ (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 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-PJA-75 AC-BNC-JJA-75

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

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 $(\Omega)$ 



### **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

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· 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 7.5mm (0.236" to 0.295")

\*Note: Applicable to T-Series straight cable connectors only. Refer to page 95 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 0.D 3mm to 8mm (0.118" to 0.315")

### 1/4" PHONE PLUGS

Amphenol offers two ranges of 1/4" Phone plug connectors to satisfy the needs of the manufacturer and the end user. The PRO – a heavy duty on-road plug and the MUSICIAN - a solid performing general use plug. Both series offer different features and benefits and the most suitable type will be determined by application, budget and personal choice.

#### **Ordering Codes**

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



**T-SERIES (PRO RANGE)** 



#### Features:

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

Options: Gold Contacts, Large or Small Jaws Cable Clamp, Black Shell, Metal Backshell / Boot, Bulk Pack. Coloured grommets (ordered separately) Part Number Breakdown: Page 94 Specifications: Page 95

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		1/4" (6.35mmø) Mono Phone plug,	Standard	TM2P
	30.0	Jaws cable clamp, Thermoplastic backshell,	Gold Plated Contacts	TM2P-AU
Connection		Satin finish.	Large Cable Clamp	TM2PJ
No.			Bulk Pack	TM2P BULK
	94 [3.685"]————————————————————————————————————	1/4" (6.35mmø) Mono Phone plug,	Standard	ТМ2РВ
Contraction of the second seco	94 [3.685"] 0.000 94 [3.685"] 0.000 94 [3.685"] 0.000 95 9 95	Jaws cable clamp, Thermoplastic backshell,	Gold Plated Contacts	TM2PB-AU
		Black finish.	Large Cable Clamp	TM2PBJ
.81			Bulk Pack	TM2PB BULK
	94 [3.685"] 	1/4" (6.35mmø) Stereo Phone plug, Jaws cable clamp, Thermoplastic backshell, Satin finish.	Standard	TS3P
			Gold Plated Contacts	TS3P-AU
			Large Cable Clamp	TS3PJ
N.C.			Bulk Pack	TS3P BULK
	94 [3.685"] 63 [2.483"] 63 [2.483"] 63 [2.483"] 63 [2.483"] 63 [2.483"] 63 [2.483"] 63 [2.483"] 64 [3.685"] 65 [2.483"] 65 [2	1/4" (6.35mmø) Stereo Phone plug, Jaws cable clamp, Thermoplastic backshell, Black finish.	Standard	ТЅЗРВ
COLUMN			Gold Plated Contacts	TS3PB-AU
			Large Cable Clamp	TS3PBJ
A.F.			Bulk Pack	TS3PB BULK





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

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
	94 [3.685"]	1/4" (6.35mmø) Mono Phone plug,	Standard	TM2PN
	94 [3.685"] O'S 63 [2.483"] 0'9 0.00 0.0	Jaws cable clamp, Metal backshell,	Gold Plated Contacts	TM2PN-AU
		Satin finish.	Large Cable Clamp	TM2PNJ
			Bulk Pack	TM2PN BULK
	94 [3.685"]	1/4" (6.35mmø)	Standard	TM2PBM
	94 [3.685"]	Mono Phone plug, Jaws cable clamp,	Gold Plated Contacts	TM2PBM-AU
		Metal backshell, Black finish.	Large Cable Clamp	TM2PBMJ
No.			Bulk Pack	TM2PBM BULK
	94 [3.685"]	1/4" (6.35mmø)	Standard	TS3PN
	94 [3.685"] O.S. p63 [2.483"] O.S. 63 [2.483"] O.S. 69 9.	Stereo Phone plug, Jaws cable clamp,	Gold Plated Contacts	TS3PN-AU
		Metal backshell, Satin finish.	Large Cable Clamp	TS3PNJ
na la			Bulk Pack	TS3PN BULK
	94 [3.685"]	1/4" (6.35mmø) Stereo Phone plug, Jaws cable clamp, Metal backshell, Satin finish.	Standard	TS3PBM
	94 [3.685"] O.90 p63 [2.483"] O.90 0.9		Gold Plated Contacts	TS3PBM-AU
			Large Cable Clamp	TS3PBMJ
- Mar			Bulk Pack	TS3PBM BULK
	615 [2 42]	1/4" (6.35mmø) Mono Phone plug, Right angle, Jaws cable clamp*, Thermoplastic backshell, Satin finish.	Standard	TM2RJ
			Gold Plated Contacts	TM2RJ-AU
			Small Cable Clamp	TM2R
			Bulk Pack	TM2RJ BULK
	615 [2 42]	1/4" (6.35mmø)	Standard	TM2RBJ
		Mono Phone plug, Right angle,	Gold Plated Contacts	TM2RBJ-AU
20		Jaws cable clamp*, Thermoplastic	Small Cable Clamp	TM2RB
		backshell, 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
		Jaws cable clamp*, Thermoplastic	Small Cable Clamp	TS3R
	12 13 13 13 13 13 13 13 13 13 13	backshell, Satin finish.	Bulk Pack	TS3RJ BULK
		1/4" (6.35mmø)	Standard	TS3RBJ
		Stereo Phone plug, Right angle,	Gold Plated Contacts	TS3RBJ-AU
120		Jaws cable clamp*, Thermoplastic	Small Cable Clamp	TS3RB
	90 10 10 10 10 10 10 10 10 10 10 10 10 10	backshell, Black finish.	Bulk Pack	TS3RBJ BULK

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\*NOTE: Refer to page 95 for Jaws cable clamp specifications applicable to right angle connectors.



**T-SERIES (PRO RANGE)** 

VS



The Amphenol T series SwitchPlug uses a unique 360 degree precision sliding ring 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 panels' 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 94 **Specifications: Page 95**

Patent Pending

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		1/4" (6.35mmø) Switch Phone plug,	Standard	TM1P
- OF	98 6 [3 883"]	Jaws cable clamp, Thermoplastic backshell,	Gold Plated Contacts	TM1P-AU
and Demonstrate		Satin finish.	Large Cable Clamp	TM1PJ
			Bulk Pack	TM1P BULK
		1/4" (6.35mmø) Switch Phone plug,	Standard	TM1PB
	98 6 [3 883"]	Jaws cable clamp, Thermoplastic backshell, Black finish.	Gold Plated Contacts	TM1PB-AU
January State			Large Cable Clamp	TM1PBJ
			Bulk Pack	TM1PB BULK
	615 [2.420"]	1/4" (6.35mmø) Switch Phone plug, Right angle, Jaws cable clamp*, Thermoplastic backshell, Satin Finish.	Standard	TM1RJ*
300			Gold Plated Contacts	TM1RJ-AU*
			Bulk Pack	TM1RJ BULK*
	615  2 420°]	1/4" (6.35mmø) Switch Phone plug,	Standard	TM1RBJ*
	- 288 315 286-1	Right angle, Jaws cable clamp*, Thermoplastic backshell, Black Finish.	Gold Plated Contacts	TM1RBJ-AU*
			Bulk Pack	TM1RBJ BULK*

\*NOTE: Refer to page 95 for Jaws cable clamp specifications applicable to right angle connectors.





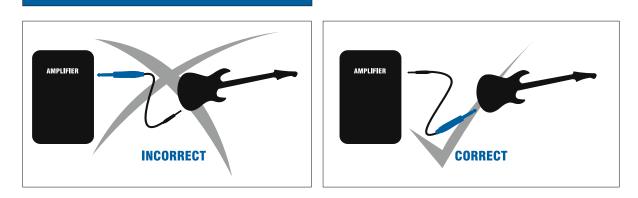
SwitchPlug

1/4" PHONE PLUGS T-SERIES (PRO RANGE)

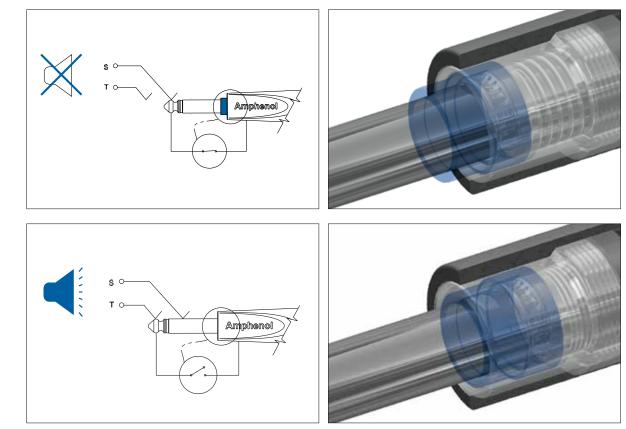
### SwitchPlug - User Instruction



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



### SwitchPlug - Technology\*



\*Patent Pending

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

www.amphenolaudio.com

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### 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 95**

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
	94 [3.690"] 63 [2.489"] AMPHENOL 65 [2.489"]	1/4" (6.35mmø) JUMBO Mono Phone plug, Thermoplastic backshell, Satin finish.	Standard Gold Plated Contacts Bulk Pack	JM2P JM2P-AU JM2P BULK
	94 [3.690"] 63 [2.489"] 63 [2.489"] 64 [3.690] 65 [2.489"] 65 [2.489] 65 [2.489] 65 [2.489] 65 [2.489] 65 [2.489] 65 [2.48] 65 [2.48]	1/4" (6.35mmø) JUMBO Mono Phone plug, Thermoplastic backshell, Black finish.	Standard Gold Plated Contacts Bulk Pack	JM2PB JM2PB-AU JM2PB BULK
	94 [3.690"] 63 [2.489"] 63 [2.489"] 65 [2.480] 65 [2.480]	1/4" (6.35mmø) JUMBO Stereo Phone plug, Thermoplastic backshell, Satin finish.	Standard Gold Plated Contacts Bulk Pack	JS3P JS3P-AU JS3P BULK
	94 [3.690"] 63 [2.489"] AMPHENOL 63 [2.489"] 63 [2.489"] 63 [2.489"] 64 [3.690"]	1/4" (6.35mmø) JUMBO Stereo Phone plug, Thermoplastic backshell, Black finish.	Standard Gold Plated Contacts Bulk Pack	JS3PB JS3PB-AU JS3P BULK

NOTE: Contact factory for availability of metal backshells.





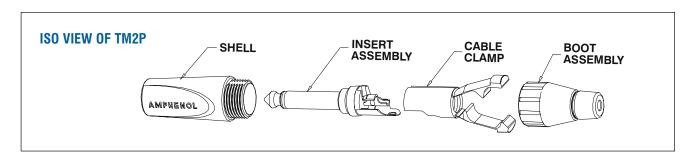
**STANDARD DATA** 

### PART NUMBER BREAKDOWN

T-SERIES (PRO RANGE)

E. G . TS3PBMJ-AU BULK T (Series Prefix), S - AU (Gold Plated C	3(Stereo), Plu	ıg <b>B</b> lack, Me Ik Packaged.	tal Nut (Black), <b>J</b> (Large Jaws),
SERIES PREFIX	Т	=	Series Prefix
CONTACT TYPE	M1	=	Switch Plug
	M2	=	2 Pole (mono)
	S3	=	3 Pole, tip/ring/sleeve (stereo)
SHELL TYPE And Finish	Р	=	Plug Satin Nickel
AND LINI9H	РВ	=	Plug Matt Black
	R	=	Right Angle Plug Satin Nickel
	RB	=	Right Angle Plug Matt Black
BACKSHELL TYPE	Blank	=	Plastic Nut
	М	=	Metal Nut - Black
	N	=	Metal Nut - Satin Nickel
CABLE CLAMP	Blank	=	Small Jaws
	J	=	Large Jaws
CONTACT PLATING	Blank	=	Nickel Plated Contacts (Standard)
	AU	=	Gold Plated Contacts
PACKAGING	Blank	=	Individual Bags
	BULK	=	Bulk Packed





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### 1/4" PHONE PLUG TECHNICAL DATA

		VALUE				
		Straight	Right Angle	Jumbo		
GENERAL Characteristics	Number of Contacts		3 Pole Tip Ring Sleeve (Stereo)			
CHARACTERISTICS	Termination		Solder			
	Max. Wire Gauge - Stranded Wire	2	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	Сотр	blies with RoHS Directive 2002/95	5/EC		
ELECTRICAL	Current Carrying Capacity	1	OA (Depends on Mating Connector and Cat	le)		
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		≥10N - ≤30N			
CHARACTERISTICS	Weight <sup>10</sup> Thermoplastic Backshell Weight <sup>10</sup> Metal Backshell		28g (0.061lb) 35g (0.077lb)			
	Typical Cable Retenton Force	22kg to 44kg (50lb to	o 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 7.5mm (0.236" to 0.295")	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 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	UL	.94 V-0 PBT Modified PPO Resin	- Black		
	Cable Bushing		Santoprene			
	Contacts / Plating		Brass/Ni or Au over 2µm Ni			

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

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



### Features:

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

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

Specifications: Page 109

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
and the second sec			1/4" (6.35mmø) Mono Phone plug, Diecast Shell, Satin finish.	Standard	ACPM-KN
1			Flexible grommet.	Gold Plated Contacts	ACPM-KN-AU
873				Bulk Pack	ACPM-KN BULK
	49 [1.922"]	1/4" (6.35mmø) Mono Phone plug, Diecast Shell, Block finich	Standard	АСРМ-КВ	
3		Black finish, Flexible grommet.	Gold Plated Contacts	ACPM-KB-AU	
83			Bulk Pack	ACPM-KB BULK	
A. C. L.	79 [3.115"]	1/4" (6.35mmø) Stereo Phone plug, Diecast Shell, Satin finish, Flexible grommet.	Standard	ACPS-KN	
9			Gold Plated Contacts	ACPS-KN-AU	
8321				Bulk Pack	ACPS-KN BULK
STATE OF STATE	م 79 [3.115"] م 49 [1.922"] م الألب ق ف		1/4" (6.35mmø) Stereo Phone plug, Diecast Shell, Black finish, Flexible grommet.	Standard	ACPS-KB
				Gold Plated Contacts	ACPS-KB-AU
	-			Bulk Pack	ACPS-KB BULK



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

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	ТҮРЕ	PART NUMBER
			1/4" (6.35mmø) Mono Phone plug, Right angle, Diecast Shell, Satin finish,	Standard	ACPM-TN
	1	2	Flexible grommet.	Gold contacts	ACPM-TN-AU
13				Bulk Pack	ACPM-TN BULK
	61 [2.402 <sup>*</sup> ] Amphanoo (, 166') ] 2.66 (, 166') ] 0.6 (, 166') 0.6 (, 166'	1/4" (6.35mmø) Mono Phone plug, Right angle, Diecast	Standard	ACPM-TB	
		Shell, Black finish, Flexible grommet.	Gold contacts	ACPM-TB-AU	
13			Bulk Pack	ACPM-TB BULK	
	61 [2.402"]	1/4" (6.35mmø) Stereo Phone plug, Right angle, Diecast Shell, Satin finish, Flexible grommet.	Standard	ACPS-TN	
			Gold contacts	ACPS-TN-AU	
No.			Bulk Pack	ACPS-TN BULK	
		1/4" (6.35mmø) Stereo Phone plug, Right angle, Diecast	Standard	ACPS-TB	
	5 [1.205 <sup>†</sup>	MAX. [.197"] - 49.3	Shell, Black finish, Flexible grommet.	Gold contacts	ACPS-TB-AU
		0.		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 109

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	9	المن المن المن المن المن المن المن المن	1/4" (6.35mmø) Mono Phone plug, Diecast Shell, Satin finish.	Standard	ACPM-GN
		Amphenol	Flexible grommet.	Gold Plated Contacts	ACPM-GN-AU
N <sub>a</sub>	о ч <u>.</u>			Bulk Pack	ACPM-GN BULK
49 [1.922"]	1/4" (6.35mmø) Mono Phone plug, Diecast Shell, Black finish.	Standard	ACPM-GB		
		Flexible grommet.	Gold Plated Contacts	ACPM-GB-AU	
			Bulk Pack	ACPM-GB BULK	
	<	49 [1.922"] 	1/4" (6.35mmø) Stereo Phone plug, Diecast Shell, Satin finish,	Standard	ACPS-GN
- A		Flexible grommet.	Gold Plated Contacts	ACPS-GN-AU	
100			Bulk Pack	ACPS-GN BULK	
	4		1/4" (6.35mmø) Stereo Phone plug, Diecast Shell, Black finish, Flexible grommet.	Standard	ACPS-GB
		Amphenol		Gold Plated Contacts	ACPS-GB-AU
	o wie in			Bulk Pack	ACPS-GB BULK



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

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	ТҮРЕ	PART NUMBER
- ST			1/4" (6.35mmø) Mono Phone plug, Right angle, Diecast Shell, Satin finish,	Standard	ACPM-RN
C.	5 [1.205" MAX.	5.0 [.197"]. 49.3 [1	Flexible grommet.	Gold contacts	ACPM-RN-AU
		2:0		Bulk Pack	ACPM-RN BULK
	61 [2.402"]		1/4" (6.35mmø) Mono Phone plug, Right angle, Diecast	Standard	ACPM-RB
		Shell, Black finish, Flexible grommet.	Gold contacts	ACPM-RB-AU	
			Bulk Pack	ACPM-RB BULK	
		1/4" (6.35mmø) Stereo Phone plug, Right angle, Diecast	Standard	ACPS-RN	
C.		37"]-	Shell, Satin finish, Flexible grommet.	Gold contacts	ACPS-RN-AU
The second secon				Bulk Pack	ACPS-RN BULK
		1/4" (6.35mmø) Stereo Phone plug, Right angle, Diecast	Standard	ACPS-RB	
	30.6 [1.205"	- ['197] - ['197] 	Shell, Black finish, Flexible grommet.	Gold contacts	ACPS-RB-AU
A.		20	-	Bulk Pack	ACPS-RB BULK



PHONE PLUGS

M SERIES / M SERIES II (MUSICIAN RANGE)

### PART NUMBER BREAKDOWN

M / M SERIES II (MUSICIAN RANGE)

					AIES P	REFTA CONT	ct TYPE	IL THE	je.	FILE
				AC		S	چە G		چ B	-
E. G . ACPM-GB-AU BUL ACP (Series Prefix - AU (Gold Plated	), <mark>M</mark> ale, <mark>G</mark> (Sh									
SERIES PREFIX	ACP	=	Series Prefix							
CONTACT TYPE	М	=	2 pole (Mono)							
	S	=	3 pole Tip/Ring/Sleeve (Stereo)							
SHELL TYPE	G	=	M Series Straight							
	К	=	M Series II Straight							
	R	=	M Series Right Angle							
	Т	=	M Series II Right Angle							
SHELL FINISH	Ν	=	Satin Nickel							
	В	=	Matt Black						_	
CONTACT PLATING	Blank	=	Nickel Plating	7						
	AU	=	Gold Plated							
PACKAGING	Blank	=	Individual Bags	1						
	BULK	=	Bulk Packed							
				_						



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### **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

### 1/4" PHONE JACK CONNECTORS

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

### **Ordering Codes**

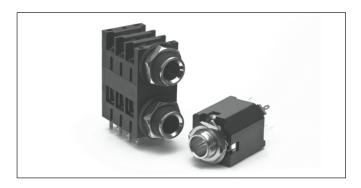
We have listed the more common ordering codes in each section. Please contact us if you need any further assistance.

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- 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.



#### **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: Pages 107 Panel Cutouts: Pages 106 PCB Footprints: Pages 108 Specifications: Pages 109

	PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
3.5	MM PHONE JACKS			3.5mm Jack, Horizontal PCB, Plastic housing, Metal entry bore	Mono	ACJM-NH35
	19-10				Stereo	ACJS-NH35
	3			3.5mm Jack, Vertical	Refer to Schematic	ACJM-NV35-2
		PCB mount, Needle eye contacts, Plastic	Chart on Page 107	ACJM-NV35-2S		
				housing, Metal entry bore		ACJS-NV35-3
	N (6)		16			ACJS-NV35-3S
		l⊶ 30.4 [1.195"]⊶				ACJS-NV35-5
			nm THICK . 16	3.5mm Jack, Vertical	Refer to Schematic	ACJM-MV35-2
	- (5)			PCB mount, Needle eye contacts, Plastic housing, Metal thread and entry bore	Chart on Page 107	ACJM-MV35-2S
						ACJS-MV35-3
					ACJS-MV35-3S	
			N6x0,5 WETAL T NUT 2.5mm THICK			ACJS-MV35-5
				3.5mm / 1/4" (6.35mmø) Dual Phone Jack, (Piggyback),	Mono	ACJM-MHD985
	C.		8,1 (1,122) (1	Horizontal PCB, Plastic housing, Metal nut and entry bore		ACJS-MHD985
			7	3.5mm / 1/4"	Refer to Schematic Chart on Page 107	ACJM-MVD985-2
	1			(6.35mmØ) Dual Phone Jack, Vertical		ACJM-MVD985-2S
	- 30			PCB mount, Needle eye contacts, Plastic		ACJS-MVD985-3
	-	SIDE VEW		housing, Metal nut and entry bore		ACJS-MVD985-3S
		→27 [1.061*]+				ACJS-MVD985-5
1/4'	' PHONE JACKS HORI	Snap-fit PCB, Plastic housing, Half thread Metal entry bore. Supplied without		Phone Jack, Horizontal		ACJM-HHDR
				Metal entry bore.	Stereo	ACJS-HHDR

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### **MUSICIAN / OEM RANGE**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
alle.			1/4" (6.35mmø) Phone Jack, Horizontal Snap-fit PCB, Plastic housing, Metal nut and	Mono	ACJM-MHDR
	4.50 [177] [177] [177] [177] [177] [177]	<del>╝╹╽╹╏╹</del> ╎ ╺┓ <u>┍╒╼┲╼┲</u> ┓ <u></u>	entry bore	Stereo	ACJS-MHDR
<b>R</b>			1/4" (6.35mmø) Phone Jack, Horizontal Snap-fit PCB, Plastic housing, Metal thread,	Mono	ACJM-MHDRM
	4.50 [.177]	┲╫╫╫┙╶╲╋ <u>╍┶╍┶</u> ┓┈╤ ╡	nut, washer and entry bore	Stereo	ACJS-MHDRM
1. Car	2.7 500"] 6.5 6.5		1/4" (6.35mmø) Offset Jack, Horizontal PCB mount, Plastic housing and entry	Refer to Schematic Chart on Page 107	ACJM-HHOP
THE	6.4 [.253"] 15.8 [.620"]	6.4			ACJS-HHOP
Ser.	500"] 500"] 6.5 1.256"]		1/4" (6.35mmø) Offset Jack, Horizontal PCB mount, Plastic housing and entry	Refer to Schematic Chart on Page 107	ACJM-HHOP-1
- Alter	6.4 [.253"] 15.8 [.620"] 5.8	8.9 [.350"] 21.36 [.841"] -	bore with Half thread. Supplied without mounting hardware.		ACJS-HHOP-1
	500"] 500"] 6.5 [236"]		1/4" (6.35mmø) Offset Jack, Horizontal PCB mount, Plastic housing, thread and	Mono - Plastic Nut	ACJM-PHOP
1.10				Mono - Metal Nut	ACJM-MHOP
190	6.4 [.253"]		entry bore	Stereo - Plastic Nut	ACJS-PHOP
	[.253"] 15.8 -= [.620"] - "			Stereo - Metal Nut	ACJS-MHOP
	۲ 5.5 256"]	1/4" (6.35mmø) Offset Refer to Schematic Jack, Horizontal PCB Chart on Page 107		ACJM-PHOP-1	
1. Car			mount, Plastic housing, thread and entry bore.	PHOP - Denotes	ACJM-MHOP-1
- HE CO	6.4 [.253"] 15.8 [620"] - 15.8	8.9 21.36 Non-switching sleeve		Plastic Nut MHOP - Denotes	ACJS-PHOP-1
	[.620"] 15.8 - [.620"] 두 명원		grounding to panel.	Metal Nut	ACJS-MHOP-1
1112	5.7 5.00"] [256"]	24.8 (.976°) Offset Jack, Horizontal PCB mount, Plastic housing, Metal thread	Mono - Metal Nut	ACJM-MHOM	
	6.4 [.253"] 15.8 [.620"] 15.8 [.620"] 15.8 [.620"] 15.8	Stereo - Metal Nut	ACJS-MHOM		
FRAM	B.0 [.315"]		1/4" (6.35mmø) Jack, Horizontal PCB mount, Plastic housing with metal insert	Mono - Plastic Nut	ACJM - PH
C	with metal insert		Mono - Metal Nut	ACJM - MH	

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### **MUSICIAN/OEM RANGE**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
S.S.S.	8.0 [.315"]		1/4" (6.35mmø) Jack, Horizontal PCB mount, Plastic housing with metal insert	Stereo - Plastic Nut	ACJS - PH
My Co		┝╢┙┈╕╵╙╢╊╼╊╼╂┯┓┐┈╴╡		Stereo - Metal Nut	ACJS - MH
		[.976"]	1/4" (6.35mmø) Jack, Horizontal	Mono - Plastic Nut	ACJM-PHR
84.20			Snap-fit PCB mount,	Mono - Metal Nut	ACJM-MHR
TT CO		┟┤┟┎╴╴╤╴╙╧╢┞╊╼╫╾╣┾╴┼╶╧ ╷	Reference of the second	Stereo - Plastic Nut	ACJS-PHR
	4.00 [.157 TYP			Stereo - Metal Nut	ACJS-MHR
	8.0 [.315"]	[.976"]+-	1/4" (6.35mmø)	Mono - Plastic Nut	ACJM-PC
1900			Jack, Combination       Horizontal PCB and       Solder lug, Plastic       housing with       metal insert	Mono - Metal Nut	ACJM-MC
100		┕╢┍┚──╶┇ ╻╹ ╻		Stereo - Plastic Nut	ACJS-PC
¢.	8.50 [.335			Stereo - Metal Nut	ACJS-MC
	1/4" (6.35mmø) Jack, Solder Lug, Plastic housing with metal insert	Mono - Plastic Nut	ACJM-PHS		
SEE			housing with metal	Mono - Metal Nut	ACJM-MHS
1110				Stereo - Plastic Nut	ACJS-PHS
				Stereo - Metal Nut	ACJS-MHS
Gano			1/4" (6.35mmø) Jack, Solder Lug, Plastic housing and Bezel with threaded Metal	Mono	ACJM-IHS
666 C		8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	nut.	Stereo	ACJS-IHS
			1/4" (6.35mmø) Jack, Horizontal PCB mount, Plastic housing and	Mono	ACJM-IH
		╨╨╨╨╨╨╹ ╗╖	Bezel with threaded Metal nut.	Stereo	ACJS-IH
PHONE JACKS HOR	9.1	لات المراجع الم	1/4" (6.35mmø) Dual Phone Jack (Compact Piggyback), Horizontal	Mono	ACJM-MHDC*
	450 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	<u>₽</u> <b>₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩</b>	Snap-fit PCB, Plastic housing, Metal nut and entry bore	Stereo	ACJS-MHDC*
and the			1/4" (6.35mmø) Dual Phone Jack (Compact Piggyback), Horizontal	Mono	ACJM-MHDCM
Tel.		┉┉┉╜╷ ┠┰Ӈ┰╿┰╵	Snap-fit PCB, Plastic housing, Metal thread, nut and entry bore	Stereo	ACJS-MHDCM

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#### **MUSICIAN/OEM RANGE**

PRODUCT - FIGURE	DRAWING		Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER	
eller.	(1,250 <sup>-</sup> )- (1,250 <sup>-</sup> )- (1,750 <sup>-</sup> )- (1,750 <sup>-</sup> )- (1,750 <sup>-</sup> )- (1,255 <sup>-</sup> )- (1,255 <sup>-</sup> )-			1/4" (6.35mmø) Dual Phone Jack (Piggyback) Horizontal Snap-fit PCB, Plastic	Mono	ACJM-MHD*	
ALL LOG	2 4 50 1 1777 1 4 50		, cf <del>ile (in la fa</del>	housing, Metal nut and entry bore	Stereo	ACJS-MHD*	
alle.	1/4" (6.35mmø) Dual Phone Jack (Piggyback) Shielding plate, Horizontal Snap-fit	Mono	ACJM-MHDE*				
	4,50 1177 1178 1178 1178 1178 1178 1178 117			PCB, Plastic housing, Metal nut and entry bore	Stereo	ACJS-MHDE*	
	51.8 [1.250"] - 51.8 [1.250"] - 51.6 [1.200"] - 1 [1.200"] - 52.6 55 1 [1.750"] - 52.6 55 1 [1.750"] - 52.6 55 1 [1.750"] - 1 [1.750] - 1			1/4"(6.35mmø) Dual Phone Jack (Piggyback), Horizontal Snap-fit	Mono	ACJM-MHDM*	
La L	4.80 (1177) 116 116 116 116 116 116 116 116 116 11			PCB, Plastic housing, Metal thread, nut, washer and entry bore	Stereo	ACJS-MHDM*	
Alles.	(1255) (1			1/4" (6.35mmø) Dual Phone Jack (Piggyback), Shielding plate Horizontal Snap-fit PCB, Plastic housing, Metal thread, nut and entry bore	Dual Phone Jack (Piggyback), Shielding	Mono	ACJM-MHDEM*
			] <sup>−</sup> ∪n <u>e44</u> - <u>4</u>		Stereo	ACJS-MHDEM*	
4" PHONE JACKS VER	TICAL			1/4" (6.35mmØ) Jack,	Refer to Schematic	ACJM-PVB-2	
	14.5 [.571*]			Vertical PCB mount, Plastic housing,	Chart on Page 107	ACJM-PVB-2S	
	15.0 172 172 172 120 120 120 120 120 120 120 120 120 12			nut and entry bore		ACJS-PVB-3	
100		1.20–1, [0.047"–0.				ACJS-PVB-3S	
	-==[.504"]H=-		24.0 [.945"] ha			ACJS-PVB-5	
	7 [.280*] <del>-   </del>	-⇒1 [63		1/4" (6.35mmø) Jack, Vertical PCB mount,	Refer to Schematic Chart on Page 107	ACJM-MIV-2	
1 - 2				Needle eye contacts, Plastic thread,		ACJM-MIV-2S	
		12 [.465 [.622]		Metal nut and insert		ACJS-MIV-3	
	3.5 [.138*] 24 [.945*]⊨	· T	2 [.087*]			ACJS-MIV-3S ACJS-MIV-5	
				1/4" (6.35mmø) Jack,	Refer to Schematic	ACJS-IVIIV-5 ACJM-MN-2	
No. of the second secon	⊨24 [.945"]⊨	<del></del> 7 [.276"]		Vertical PCB mount,	Chart on Page 107	ACJS-MN-3	
				Needle eye contacts, Star washer, Metal nut		ACJM-MN-2S	
4		J	16.0 [.630 <sup>*</sup>	and insert		ACJS-MN-3S	
			Ŷ		ACJS-MN-5		
	24 F 045"]			1/4" (6.35mmø)	Refer to Schematic	ACJM-MV-2	
0	24 [.945"]	- 		Jack, Vertical PCB mount, Metal nut	Chart on Page 107	ACJM-MV-2S	
			20.	and insert		ACJS-MV-3	
4080		μ				ACJS-MV-3S	
			Ť			ACJS-MV-5	

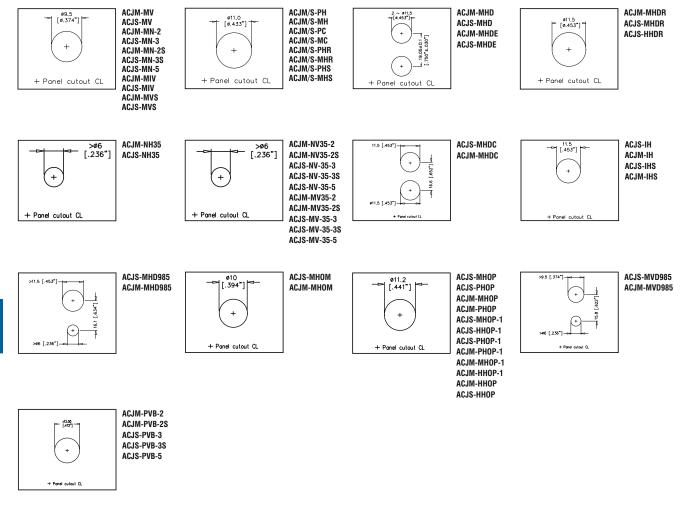


PHONE JACKS

#### **MUSICIAN/OEM RANGE**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			1/4" (6.35mmø)	Refer to Schematic	ACJM-MVS-2
			Jack, Solder Lug, Metal nut and insert	Chart on Page 107	ACJM-MVS-2S
100					ACJS-MVS-3
- 160					ACJS-MVS-3S
					ACJS-MVS-5

### PANEL CUTOUTS -FRONT VIEW



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PHONE JACKS

### **MUSICIAN/OEM RANGE**

### **SCHEMATIC CHART**

PART NO.	ACJM-MV35-2 ACJM-MN-2 ACJM-NV35-2 ACJM-PVB-2 ACJM-MV-2 ACJM-MV5-2 ACJM-MIV-2	ACJM-MV35-2S ACJM-MN-2S ACJM-NV35-2S ACJM-PVB-2S ACJM-MV-2S ACJM-MVS-2S ACJM-MVS-2S ACJM-MIV-2S	ACJS-MV35-3 ACJS-MN-3 ACJS-NV35-3 ACJS-PVB-3 ACJS-MV-3 ACJS-MVS-3 ACJS-MIV-3	ACJS-MV35-3S ACJS-MN-3S ACJS-NV35-3S ACJS-PVB-3S ACJS-MVS-3S ACJS-MVS-3S ACJS-MVS-3S	ACJS-MV35-5 ACJS-MN-5 ACJS-NV35-5 ACJS-PVB-5 ACJS-MV-5 ACJS-MVS-5 ACJS-MIV-5
GENERAL SCHEMATIC	1		√ <sup>••</sup> <sup>4</sup>	√ <sup>4</sup> √ <sup>2</sup> 3 1	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓

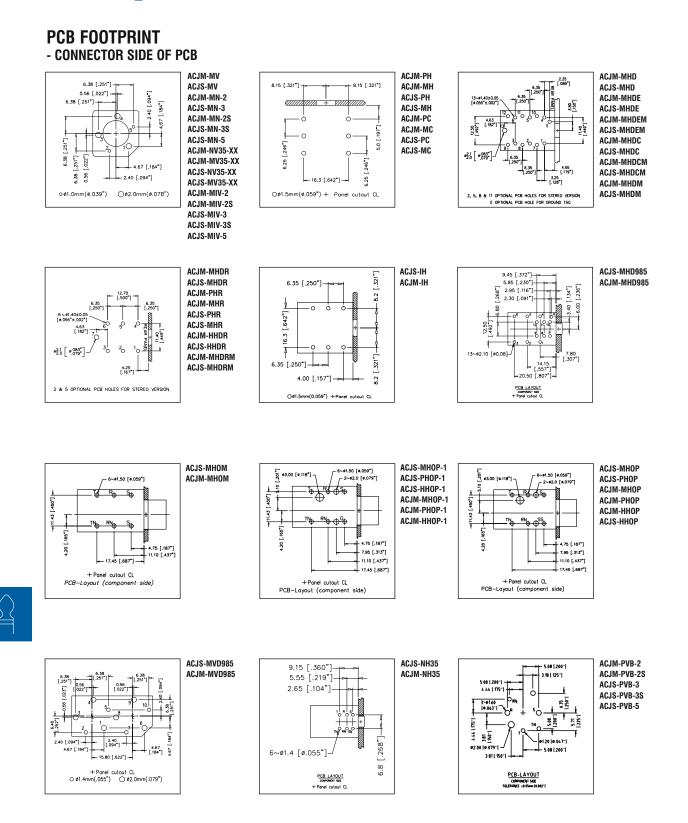
PART NO.	ACJM-MVD985-2	ACJM-MVD985-2S	ACJS-MVD985-3	ACJS-MVD985-3S	ACJS-MVD985-5
SCHEMATIC	0 0 0 0 0 0		0 9 0 7 0 8 0 6	0 9 0 7 0 8 0 6	0 9 0 0 0 7 0 7 0 8 0 8
	[ 	[ 	0 4	$\begin{bmatrix} \sqrt{} & 0 & 4 \\ \sqrt{} & 0 & 2 \\ \sqrt{} & 0 & 3 \\ \sqrt{} & 0 & 1 \end{bmatrix}$	$\begin{bmatrix} \sqrt{2} & 0 & 4 \\ 0 & 0 & 5 \\ 0 & 0 & 2 \\ 0 & 0 & 3 \\ 0 & 0 & 1 \end{bmatrix}$

PART NO.	ACJM-HHOP-1	ACJS-HHOP-1	АСЈМ-ННОР	ACJS-HHOP
	ACJM-PHOP-1	ACJS-PHOP-1	АСЈМ-РНОР	ACJS-PHOP
	ACJM-MHOP-1	ACJS-MHOP-1	СЈМ-МНОР	ACJS-MHOP
GENERAL Schematic				



PHONE JACKS

#### **MUSICIAN/OEM RANGE**



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**MUSICIAN/OEM RANGE** 

# **PLUG AND JACKS TECHNICAL DATA**

		VALUE
GENERAL Characteristics	Nunber of Contacts	2 Pole (Mono)
CHARACIERISIICS		3 Pole Tip Ring Sleeve (Stereo)
	Termination	Solder, PCB or Combo
	Max. Wire Gauge - Stranded Wire	2 Pole (Mono): AWG 16 - 1.5mm <sup>2</sup>
		3 Pole (Stereo): AWG 18 - 1mm <sup>2</sup>
	Flammability rating of insulating plastics	UL94V-0
	Solderability, complies with	IEC 68-2-20
	Environmental	Complies with RoHS Directive 2002/95/EC
ELECTRICAL	Current Carrying Capacity	10A (Depends on Mating Connector and Cable)
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	≥10N - ≤30N
CHARACTERISTICS	Cable O.D. (Plugs)	6mm (0.236")
MATERIALS	Connector Shell Material (Plugs)	Diecast Zinc Alloy EZDA No.3
	Connector Shell Material (Jacks)	UL94 V-0 PBT Modified PPO Resin - Black
	Connector Shell Finish	Satin Nickel, Nickel or Black Polyester
	Insulators	UL94 V-0 PBT Resin or Modified PPE Resin and fibreglass laminate
	Cable Bushing	Santoprene
	Contacts / Plating (Plugs)	Brass / Ni over Cu (Copper)
	Contacts / Plating (Jacks)	Brass / Sn (Tin) over Cu (Copper)

Rev 2 - 12/2009

 $^{\scriptscriptstyle 0}$  Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.

PLUGS AND SOCKETS

**M / K SERIES** 

# Amphenol



### **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 0.D 3mm to 6.5mm (0.118" to 0.256")



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

## PLUGS AND SOCKETS

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

### **Ordering Codes**

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

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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.

### **K SERIES (MUSICIAN RANGE)**



#### Features:

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

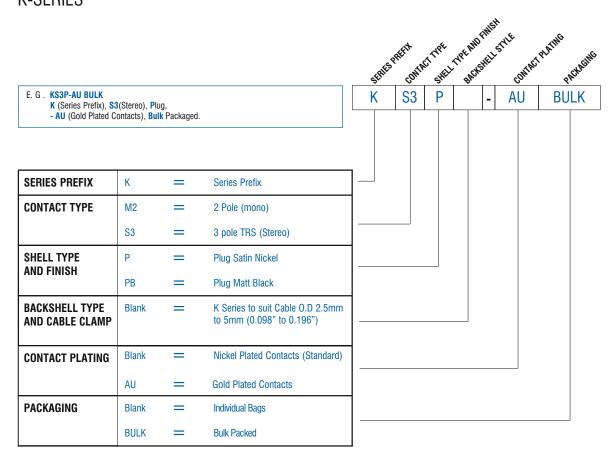
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
	49 [	[1.911"]———————————————————————————————————	3.5mm,	Standard	KM2P
		5 [1.370"]	Mono Phone plug, Diecast Shell, Satin finish,	Gold Plated Contacts	KM2P-AU
			Flexible grommet.	Bulk Pack	KM2P BULK
	49 [1.911"]     3.5mm,       -35 [1.370"]     9.5 (1.370")       Diecast Shell,       Black finish,	· · ·	Standard	KM2PB	
B		Diecast Shell,	Gold Plated Contacts	KM2PB-AU	
			Flexible grommet.	Bulk Pack	KM2PB BULK
	49 [1.911"]		3.5mm, Stereo Phone plug,	Standard	KS3P
			Diecast Shell, Satin finish,	Gold Plated Contacts	KS3P-AU
			Flexible grommet.	Bulk Pack	KS3P BULK
	49 [1.911"] 10 [] 3.5mm, 	3.5mm, Stereo Phone plug,	Standard	KS3PB	
Contra Co		5 [1.370"] - 5 <u>6</u>	Diecast Shell, Black finish,	Gold Plated Contacts	KS3PB-AU
			Flexible grommet.	Bulk Pack	KS3PB BULK

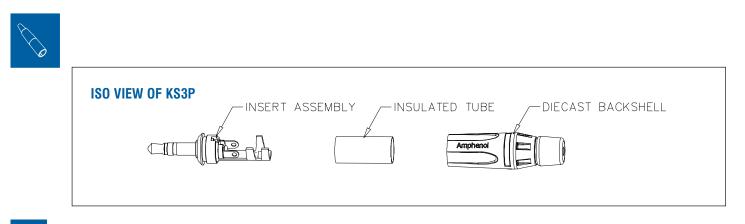


**STANDARD DATA** 

# PART NUMBER BREAKDOWN

**K-SERIES** 





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PLUGS AND SOCKETS

### **RCA SERIES**



Amphenol

### Features:

- Stylish designFlexible 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 114

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	COLOUR	PART NUMBER
	[ w	RCA Plug, Diecast Shell,	Red	ACPR-RED
	62 [2.445"]	Gold plated contacts,	Black	ACPR-BLK
N/R	02 [2.445] 00 M 8	Coloured finish, Flexible coloured grommet.	Yellow	ACPR-YEL
		lionable concarea greeninea	White	ACPR-WHT
	Amphenol		Blue	ACPR-BLU
al			Green	ACPR-GRN
	5"]	RCA Plug, Diecast Shell,	Satin / Red	ACPR-SRD
	62 [2.445"]	Gold plated contacts,	Satin / Black	ACPR-SBK
A State	62 [2.445"]	Satin finish, Flexible coloured grommet.	Satin / Yellow	ACPR-SYL
	8		Satin / White	ACPR-SWH
	Amphenol		Satin / Blue	ACPR-SBL
100			Satin / Green	ACPR-SGR
	[	RCA Jack, Diecast Shell,	Red	ACJR-RED
		Gold plated contacts,	Black	ACJR-BLK
No.	54 [2.130"]	Coloured finish, Flexible coloured grommet.	Yellow	ACJR-YEL
100	e e e e e e e e e e e e e e e e e e e	Thombie Colourou grommot.	White	ACJR-WHT
	Amphenol		Blue	ACJR-BLU
			Green	ACJR-GRN
	۲. ۲	RCA Jack, Diecast Shell,	Satin / Red	ACJR-SRD
	► 54 [2.130"] ► 54	Gold plated contacts,	Satin / Black	ACJR-SBK
We the		Satin finish, Flexible coloured grommet.	Satin / Yellow	ACJR-SYL
			Satin / White	ACJR-SWH
	Amphenol		Satin / Blue	ACJR-SBL
			Satin / Green	ACJR-SGR
		RCA Jack, Diecast Shell,	Red	ACJD-RED
0		Gold plated contacts, Nickel	Black	ACJD-BLK
	31 (1.22*1) 24 (1.945*1) 24 (1.945*1) 26 (1.945*1) 26 (1.945*1)	finish shell, coloured insulator.	Yellow	ACJD-YEL
			White	ACJD-WHT
			Blue	ACJD-BLU
C. Discounts	→ 26 [1.024*] → ↓ ↓ ↓ 5.5 [.217*] → 29.6 [1.165*] → ↓		Green	ACJD-GRN

NOTE: RCA Series comply with RoHS Directive 2002/95/EC

**M SERIES RCA** 

## PART NUMBER BREAKDOWN

**M SERIES RCA** 

G - ACPR-RED BULK AC (Series Prefix), Plug, R(Shell type), RED (Shell and Grommet Colour), Bulk Packaged.
SERIES PREFIX AC = Series Prefix
CONTACT TYPE J = RCA Female Jack
P = RCA Male Plug
D = Chassis Jack 'D' Shell
SHELL AND     RED     Red, Red Grommet       GROMMET COLOUR
BLK = Black, Black Grommet
YEL — Yellow, Yellow Grommet
WHT = White, White Grommet
BLU = Blue, Blue Grommet
GRN = Green, Green Grommet
SRD = Satin Nickel,Red Grommet
SBK = Satin Nickel, Black Grommet
SYL = Satin Nickel, Yellow Grommet
SWH = Satin Nickel, White Grommet
SBL = Satin Nickel, Blue Grommet
SGR = Satin Nickel, Green Grommet
NOTE: Denotes colour of insulator only on shell type D, Chassis Jack 'D' Shell. Shell finish is Nickel.
PACKAGING Blank = Individual Bags
BULK = Bulk Packed



**G TYPE CONNECTORS** 

#### **METAL SHELL TYPE**



**Amphenol** 

#### 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 116Specifications: Page 117PCB Footprints: Page 118Panel Cutouts: Page 118

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		Male cable connector,	3 pole	AG3M
	4005 [[4137]	Machined contacts, Nickel Finish	4 pole	AG4M
			5 pole	AG5M
	ا <del>ء</del> 52 [2.055*]ها		6 pole	AG6M
		Female cable	3 pole	AG3F
C		connector, Stamped contacts,	4 pole	AG4F
	40.5 [1.596"]	Nickel Finish	5 pole	AG5F
	49 [1.910*]		6 pole	AG6F
	→ <u>36 [1.396*]</u> → →	Female cable	3 pole	AG3FL
		connector with locking ring, Stamped	4 pole	AG4FL
A Co		contacts, Nickel Finish.	5 pole	AG5FL
20		6 pole	AG6FL	
1000	1.0 [.039 <sup>*</sup> ]-++	Male chassis	3 pole	AG3MCC
		connector, Machined contacts,	4 pole	AG4MCC
		Nickel Finish	5 pole	AG5MCC
			6 pole	AG6MCC
	53.64 [2.112 <sup>*</sup> ]	Male chassis	3 pole	AG3MCCH
	2.5 [0067] 1.2.5 [1067] 3.6 [1547] TM 3.6 [1547]	connector, Horizontal PCB,	4 pole	AG4MCCH
		Machined contacts, Nickel Finish	5 pole	AG5MCCH
No.			6 pole	AG6MCCH
		Male chassis connector, Horizontal PCB, Machined contacts, Thermoplastic shell	4 pole	AG4MPCH
	5.7 [.224"] + -2.3 [.091"]	Female chassis	3 pole	AG3FCRV
18 TOTAL	-17.1 [.673]	connector, Stamped contacts,	4 pole	AG4FCRV
	-24.4 []	Nickel Finish	5 pole	AG5FCRV
			6 pole	AG6FCRV

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PART NUMBER BREAKDOWN

**G TYPE CONNECTORS** 

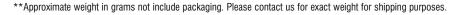
					4	UU	5		
				strifts F	REFLONT	ET LAT NOF	A CHELL	ATE CONTR	3 THE
E. G. AG3MCCHB AG (Series Prefix), 3 Black finish.	contacts, M	lale, <b>C</b> hassis	Connector, Horizontal PCB Contacts,	AG	3	M	CC	H	E
				,					
SERIES PREFIX	AG	=	Series Prefix						
CONTACT LAYOUTS	3	=	3 Contacts						
	4	=	4 Contacts						
	5	=	5 Contacts						
	6	=	6 Contacts						
GENDER	F	=	Female Socket Contacts						
	Μ	=	Male Pin Contacts						
SHELL STYLE	Blank	=	Cable Connector Standard (Male or Female)						
	J	=	Cable Connector Large Cable clamp / boot O.D (Male or Female)						
	L	=	Cable Connector with locking ring (Female)						
	CC	=	Chassis Connector Circular Metal (Male)						
	CR	=	Chassis Connector Rectangular Metal (Female)						
	PC	=	Chassis Connector Plastic (Male)						
CONTACT TYPE	Blank	=	Solder Buckets (All styles except PC, CR)						
	Н	=	Horizontal PCB (Style CC, PC only)						
	V	=	Vertical PCB (Style CR only)						
SHELL FINISH	Blank	=	Nickel Plated Finish						
	В	=	Black Finish						



**G TYPE CONNECTORS** 

# **STANDARD DATA G TYPE**

		VALUE							
GENERAL	Number of contacts	3	4	5	6				
CHARACTERISTICS	Termination	Printed Circuit Board (PCB) or Solder Bucket							
	Flammability								
ELECTRICAL	Service Voltage RMS <sup>1)</sup>	1000V	1000V	1000V	250V				
CHARACTERISTICS	Test Voltage AC RMS		125	V AC					
	Current carrying capacity	5A	5A	4A	1.2A				
	Typicial Contact Resistance		≤10	lmΩ					
	Insulation Resistance (initial)		≥51	OMΩ					
	Insulation Resistance (After damp heat test)		≥10	MΩ					
CLIMATIC	Protection Class		IP	00					
CHARACTERISTICS	Operating Temperature		-30°C to +80°C	C (-20F - +176F)					
MECHANICAL Characteristics	Weight **	13.5g							
		(0.029lb)							
	Insertion Spring Separating Force	≥20N							
	Mechanical Operations	5000 mating cycles	5000 mating cycles	5000 mating cycles	2000 mating cycles				
	Cable O.D. range	2mm to 3.5mm (	0.078" to 0.137")	3mm to 5mm (0.	118" to 0.196")				
MATERIALS	Connector Shell		Bronze	& Zinc					
	Shell Finish	Nickel Plated							
	Insulators	PPS - Black							
	Male Contact - Material		Brass	C3604					
	- Plating	Gold over Silver plated							
	Female Contact - Material		Brass C	5210P					
	- Plating	Gold over Silver plated							
	Latch Lock and Spring	SUS (AISI - 301) - Nickel Plated							
	Adaptor	PPS - Black							
	Cable Clamp		Bronze - N	ickel Plated					
	Boot/Backshell		ABS -	Black					
	Grommet		PU -	Black					

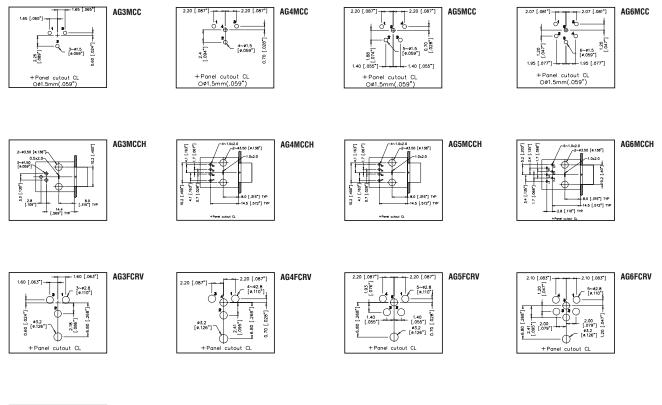


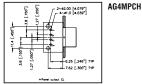
Rev 1 - 10/2010

**G-TYPE CONNECTORS** 

# **Amphenol**

## PANEL CUTOUTS - CONNECTOR SIDE OF PCB









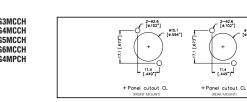
#### AG3MCC AG4MCC ø11.25 [ø.443"] ł 10.7 [.421"] 5MCC 6MCC ł

+ Pan

(Fi

( <b>1</b> )	AG5 AG6
el cutout CL RONT MOUNT)	

	_
10.2 [.402*]	AG
[.402"]	AG4
$\mathbf{x}$	AG
$(\mathbf{y})$	AG AG
¢11.25 [ø.443"]	
+ Panel cutout CL	



AG3FCRV AG4FCRV AG5FCRV AG6FCRV

¢14.2 [¢.559\*]



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

### 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

### **Ordering Codes**

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

# MULTIPIN CONNECTORS

## Simple steps to guide you in using this catalogue

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



### **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 contacts150 pins with Crimp contacts only
- 4 to 48 channels
- Gold plated contacts
- Synthetic insert
- Protective dust caps
- **Options:** NPT threaded backshells.

## Specifications: Page 124

#### · Industry standard compatible

- 2000 mating cycles
- Black finish
- Positive bayonet locking
- PG cable glands
- IP67 rated

### Crimp Tooling: Page 123

Part Number Breakdown: Page 123

PRODUCT - FIGURE	Dimensions in mm (inches) DRAWING		ns in mm (ir		PINS	PART NUMBER	PART NUMBER With Dustcap
	JNAWING	A	B	PG			with Dusicap
	Straight cable plug with socket	40.5	160				
	contacts, Black finish, supplied	(1.60)	(6.30)	11	13	MP-4106-13S	MP-4106-13S-C
CONCERNING OF THE OWNER	complete with contacts.	44	171				
1 March		(1.73)	(6.73)	13.5	19	MP-4106-19S	MP-4106-19S-C
		46.6	193				
1.		(1.83)	(7.60)	16	25	MP-4106-25S	MP-4106-25S-C
		54.3	210				
111	13, 19, 25, 37 and 54 contact type	(2.14)	(8.26)	21	37	MP-4106-37S	MP-4106-37S-C
		60.1	210				
		(2.36)	(8.26)	21	54	MP-4106-54S	MP-4106-54S-C
		73.3	137				
	85, 150 and 200 contact type	(2.88)	(5.40)	29	85	MP-4106-85S	MP-4106-85S-C
		73.3	145				
	os, iso and zoo contact type		(5.70)	36	150	MP-4106-150S	MP-4106-150S-C
	Cable connecting receptacle with pin contacts, black finish, supplied complete with contacts.		160				
			(6.30)	11	13	MP-4101-13P	MP-4101-13P-C
all the second			171				
		(1.62)	(6.73)	13.5	19	MP-4101-19P	MP-4101-19P-C
120	B	41.5	193				
		(1.63)	(7.60)	16	25	MP-4101-25P	MP-4101-25P-C
		51	210				
1111/	PG_	(2.00)	(8.26)	21	37	MP-4101-37P	MP-4101-37P-C
	13, 19, 25, 37 and 54 contact type	57.1	210				
		(2.25)	(8.26)	21	54	MP-4101-54P	MP-4101-54P-C
		70	137				
		(2.75)	(5.40)	29	85	MP-4101-85P	MP-4101-85P-C
	←G 85, 150 and 200 contact type	70	145				
	os, iso and zoo contact type	(2.75)	(5.70)	36	150	MP-4101-150P	MP-4101-150P-C

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

**MP-41 SERIES** 

	Dimensions in mm (inches) DRAWING		Dimensions in mm (inches)					DING	PART NUMBER	PART NUMBER	
PRODUCT - FIGURE			B	C	D	E	F	PINS	FART 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	
0/17	with contacts.	41	31.8	3.2	44	38.8					
1 1000		(1.61)	(1.25)	(0.13)	(1.73)	(1.53)	N/A	19	MP-4164-19S	MP-4164-19S-C	
A COURSE		44.5	34.9	3.73	48.51	40.6					
A 4888	A	(1.75)	(1.37)	(0.14)	(1.91)	(1.60)	N/A	25	MP-4164-25S	MP-4164-25S-C	
		50.8	39.7	3.73	54.3	42					
		(1.99)	(1.56)	(0.14)	(2.14)	(1.65)	N/A	37	MP-4164-37S	MP-4164-37S-C	
111		57	44.5	4.39	60.8	45					
		(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				MD 4104 050 0	
		(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		450		MD 4164 1500 0	
		(2.74)	(2.18)	(0.17)	(2.88)	(1.77)	N/A 29	150	MP-4164-150S	MP-4164-150S-C	
	Panel receptacle with pin contacts,	38	29.4	3.23	34.2	34.5		10	MD 4100 10D	MD 4102 12D C	
	black finish, supplied complete with	(1.49)	(1.15) 31.8	(0.13)	(1.34) 37.4	(1.35)	(1.14) 32.2	13	MP-4102-13P	MP-4102-13P-C	
GACAG	contacts.	41 (1.61)		3.23	-	34.5	32.2 (1.26)	19	MP-4102-19P	MP-4102-19P-C	
		(1.61)	(1.25) 34.9	(0.13) 3.73	(1.47) 40.9	(1.35) 35.7	35.3	19	WF-4102-19P	4102-131-0	
1315/89		(1.75)	(1.37)	(0.14)	(1.61)	(1.40)	(1.38)	25	MP-4102-25P	MP-4102-25P-C	
		50.8	39.7	3.73	46.7	36.5	41.4	20	WII -4102-201		
		(1.99)	(1.56)	(0.14)	(1.83)	(1.44)	(1.62)	37	MP-4102-37P	MP-4102-37P-C	
1111/		57	44.5	4.30	53.4	38.5	47.8	07	102 071		
		(2.24)	(1.75)	(0.17)	(2.10)	(1.52)	(1.88)	54	MP-4102-54P	MP-4102-54P-C	
		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				
		(2.74)	(2.18)	(0.17)	(2.57)	(1.52)	(2.32)	150	MP-4102-150P	MP-4102-150P-C	
		34.16	31.5	110	4.7						
	Plug protective dustcap to suit	(1.35)	(1.24)	(4.33)	(0.18)	-	-	13	MP-25042-13S	-	
	MP-4164 type.	37.36	31.5	110	4.7						
		(1.47)	(1.24)	(4.33)	(0.18)	-	-	19	MP-25042-19S	-	
		40.87	31.5	110	4.7						
Common and and and and and and and and and an	r	(1.61)	(1.24)	(4.33)	(0.18)	-	-	25	MP-25042-25S	-	
1 9		46.68	31.5	110	4.7						
		(1.84)	(1.24)	(4.33)	(0.18)			37	MP-25042-37S	-	
		53.36	31.5	110	5.5						
2		(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 (1.24)	110 (4.33)	5.5 (0.22)	_		150	MP-25042-150S		
		(2.58)	20.7	(4.33)	(0.22)	-	-	100	WF-20042-1005	-	
	Receptacle protective dustcap to	(1.53)	(0.81)	(8.07)	_	_		13	MP-25042-13L	-	
	suit MP-4106 types.	41.6	20.7	255				10	IIII 20042 TOL		
		(1.64)	(0.81)	(8.07)	1.1	1.1	-	19	MP-25042-19L	-	
		45.3	20.7	255							
		(1.78)	(0.81)	(8.07)	-	-	-	25	MP-25042-25L	-	
17.00	د — م	52.15	20.7	255							
8		(2.05)	(0.81)	(8.07)	-	-	-	37	MP-25042-37L	-	
		58.6	20.7	255							
		(2.30)	(0.81)	(8.07)			-	54	MP-25042-54L	-	
		70.7	20.7	255							
		(2.78)	(0.81)	(8.07)	-	-	-	85	MP-25042-85L	-	
		70.7	20.7	255							
		(2.78)	(0.81)	(8.07)				150	MP-25042-150L	-	

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ACCESSORIES

PRODUCT - FIGURE	Dimensions in mm (inches)							PINS	PART NUMBER
	DRAWING	A	B	C	D	E	F		
		34.16	31.5	110	4.7				
	Plug protective dustcap to suit	(1.35)	(1.24)	(4.33)	(0.18)	-	-	13	MP-25043-13S
	MP-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
and the second s		53.36	31.5	110	5.5				
. ~		(2.10)	(1.24)	(4.33)	(0.22)	-	-	54	MP-25043-54S
		65.48	31.5	110	5.5				
		(2.58)	(1.24)	(4.33)	(0.22)		-	85	MP-25043-85S
		65.48	31.5	110	5.5				
		(2.58)	(1.24)	(4.33)	(0.22)	-	-	150	MP-25043-150S
		38.8	20.7	255					
	Receptacle protective dustcap to	(1.53)	(0.81)	(8.07)	-		-	13	MP-25043-13L
	suit MP-4101 types.	41.6	20.7	255					
		(1.64)	(0.81)	(8.07)	-	-	-	19	MP-25043-19L
		45.3	20.7	255					
	[ []	(1.78)	(0.81)	(8.07)			-	25	MP-25043-25L
1 2		52.15	20.7	255					
		(2.05)	(0.81)	(8.07)	-	-	-	37	MP-25043-37L
0		58.6	20.7	255					
		(2.30)	(0.81)	(8.07)	-	-	-	54	MP-25043-54L
	s	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

#### MULTIPIN CONNECTORS

# Amphenol

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
			150	MP-INS-18
	N/A	Extraction tool	All	MP-EXT-16/18
	N/A	Contact Pilot Pin	13-85	MP-GUIDE-16
	IN/ A		150	MP-GUIDE-18
	N/A	Solder/Crimp Pin Contact	13-85 (Size 16)	MP-108400
	IV/ A	Crimp Socket Contact (Soldering of this contact is not recommended)	150 (Size 18)	MP-108300
	N1/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**

E. G . MP-4106-85S Multipin, 4106 Cab	le Plug, <mark>85</mark> Co	ntacts, <mark>S</mark> F	emale Socket Contacts,		SERIES PR		HOUSHET			FONTACIS .	
SERIES PREFIX	MP	=	Series Prefix	]	MP	-	4106	-	85	S	C
HOUSING TYPE	4101	=	Inline cable connecting receptacle	1							
	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								
GENDER	Р	=	Male pin contacts								
*Not required for dustcap part numbers	S	=	Female socket contacts								
OPTIONS	С	_	Supplied with Dustcap	]							

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**STANDARD DATA** 

# **STANDARD DATA MP-41 SERIES**

					VALUE					
GENERAL	Number of contacts	13	19	25	37	54	85	150		
CHARACTERISTICS	Number of channels	4	6	8	12	16	28	48		
	Termination			Solder / Crin	np "Combo"			Crimp		
	Wire Gauge - Stranded Wire			16AWG - 2	20AWG			18AWG		
	Environmental	Complies with RoHS Directive 2002/95/EC								
ELECTRICAL	Operating Voltage at Sea level - DC			250	W*			250V*		
CHARACTERISTICS	Operating Voltage at Sea level - AC			200	V*			200V*		
	Test Voltage AC RMS			100	10V			1000V		
	Current Carrying Capacity			13	A			7.5A		
	Typical Contact Resistance	3.46mΩ 11.25mΩ								
	Insulation Resistance	5000ΜΩ								
	Protection Class	IP67 (when mated)								
CHARACTERISTICS	Operating Temperature	-55°C to +125°C (-67°F to +257°F)								
MECHANICAL	Cable Retention	PG Gland								
CHARACTERISTICS	Mechanical Operations	2000 mating cycles								
MATERIALS	Connector / Shell Finish			Aluminium	Alloy / Black					
	Insert		S	ynthetic Inser	t to MIL-R-30	65				
	Male pin contact / Plating	Brass / Gold flash plated								
	Female socket contact / Plating			Brass / Gold	l flash plated					
	PG Gland	11	13.5	16	2	21	29	36		
CHARACTERISTICS	Cable Clamping range mm	4-10	5-12	9-14	13	-18	14-25	19-32		
	(inches)	(0.15"- 0.39")	(0.19"- 0.47")	(0.35"- 0.55")	(0.51"	- 0.70")	(0.55"- 0.98")	(0.74"- 1.25")		

\*Not suitable for domestic applications above 50V



### **MP-62 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. Black finish.
- Neoprene insert. Protective dust caps
- Environmental resistant.
- · Positive bayonet locking
- PG cable glands

#### Specifications: Page 127 Wiring Info: Page 130

PRODUCT - FIGURE	Dimensions in mm (inches)		ns in mm (ir		PINS	PART NUMBER	PART NUMBER
	DRAWING	A	В	PG			With Dustcap
	Straight cable plug with pin contacts, Black finish, Gold plated solder contacts.	38.9	181.5	16	39		
NON NO	₽	(1.53)	(7.15)			MP-6216-39P	MP-6216-39P-C
		45.5	193	21	61		
		(1.80)	(7.60)			MP-6216-61P	MP-6216-61P-C
	Cable connecting receptacle with socket contacts, Black finish, Gold plated solder contacts.	36.7	181.5	16	39		
COLUMN TO A STREEM	8	(1.45)	(7.15)			MP-6211-39S	MP-6211-39S-C
		43.0	193	21	61		
	~~~~~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	(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
		45.5	100	NPT	61		
		(1.80)	(3.94)	3/4"		MP-6516-61P	MP-6516-61P-C
	Cable connecting receptacle with socket contacts, NPT 3/4" threaded backshell, Black finish,	36.7	90	NPT	39		
	Gold plated solder contacts.	(1.45)	(3.54)	3/4"		MP-6511-39S	MP-6511-39S-C
		43.0	100	NPT	61		
		(1.70)	(3.94)	3/4"		MP-6511-61S	MP-6511-61S-C

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#### ACCESSORIES

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

	PRODUCT - FIGURE DRAWING Dimensions in mm (inches) DESCRIPTION			imensions	in mm (inc	ches)	PINS	PART NUMBER
	DIAWING Dimensions in mm (incres)	DESCHIE HON	A	В	C	D	TING	
<b>R</b> 2		Plug protective dustcap to suit MP-6256	31.7 (1.25)	15.9 (0.62)	127 (4.99)	4.40 (0.17)	39	MP-742-39S
No.			38.05 (1.50)	16.70 (0.66)	127 (4.99)	4.40 (0.17)	61	MP-742-61S
	гсс	Receptacle protective dustcap to suit MP-6216	36.9 (1.45)	13.13 (0.52)	127 (4.99)	-	39	MP-742-39L
			43.14 (1.70)	14.15 (0.56)	127 (4.99)	-	61	MP-742-61L
201		Plug protective dustcap to suit MP-6212	31.7 (1.25)	15.9 (0.62)	127 (4.99)	4.40 (0.17)	39	MP-738-39S
No.			38.05 (1.50)	16.70 (0.66)	127 (4.99)	4.40 (0.17)	61	MP-738-61S
	ee	Receptacle protective dustcap to suit MP-6211	36.9 (1.45)	13.13 (0.52)	127 (4.99)	-	39	MP-738-39L
Ø			43.14 (1.70)	14.15 (0.56)	127 (4.99)	-	61	MP-738-61L

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ACCESSORIES

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

		VAI	LUE						
GENERAL	Number of contacts	39	61						
CHARACTERISTICS	Number of channels	12	20						
	Termination	Sol	lder						
	Wire Gauge - Stranded Wire	37 x 24AWG-20AWG	24AWG-20AWG						
		2 x 20AWG-16AWG							
	Environmental	Complies with RoHS	Directive 2002/95/EC						
ELECTRICAL	Operating Voltage at Sea level - DC	600V*							
CHARACTERISTICS	Operating Voltage at Sea level - AC	60	OV*						
	Test Voltage AC RMS	150	00V						
	Current Carrying Capacity	37 x 7.5A	7.5A						
		2 x 13A							
	Insulation Resistance	5000M Ω							
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 /	Alloy / Black						
	Insert	Neop	prene						
	Male pin contact machined - Plating	Brass / Gold	l flash plated						
	Female socket contact machined - Plating	Brass / Gold	flash plated						
CLAMPING	PG Gland	16	21						
CHARACTERISTICS	Cable Clamping range mm (inches)	9-14 (0.35"-0.55")	13-18 (0.51"-0.70")						

\*Not suitable for domestic applications above 50V





### **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.



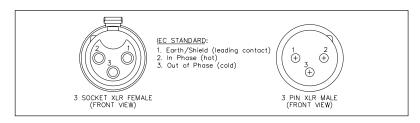
### **FIBRE OPTIC**

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.

THERMOPLASTIC TYPE

# **CONNECTOR WIRING INFORMATION**

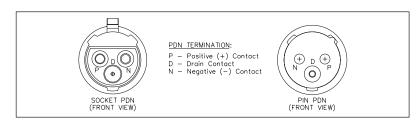
## XLR (Microphone / Patch Cables)



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

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

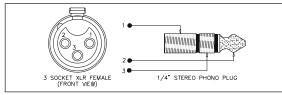
## **PDN (Speaker Cables)**



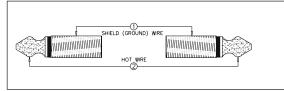
The PDN stands for Positive, Drain and Negative. P pin is used for the Positive (+) line and the N pin is for the return line. D pin is a leading contact that engages at interconnection, before the major contacts. If applicable, solder the cable screen to this contact.

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

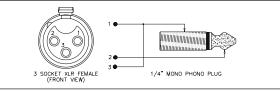
### MICROPHONE CABLE - BALANCED



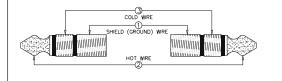
### **INSTRUMENT / LINE CABLE (MONO)**



## MICROPHONE CABLE - UNBALANCED



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



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# **CONNECTOR WIRING INFORMATION**

### **MP Series**

MP-41 Series 4 Ch -13 pin Ch + - G 1 B C E 2 F K H 3 J D A 4 N M G General Ground L V	$\begin{array}{c c} \text{MP-41 Series} \\ \hline 6 \ \text{Ch} - 19 \ \text{pin} \\ \hline \\ $	$\begin{array}{c} \text{MP-41 Series} \\ \textbf{8 Ch} - \textbf{25 pin} \\ \hline \\ \hline \\ \hline \\ \hline \\ \textbf{Ch} + - G \\ \hline \\ 1 & A & E \\ \hline \\ \hline \\ 2 & G & C \\ B \\ \hline \\ 3 & D \\ H \\ J \\ 4 \\ M \\ L \\ K \\ 5 \\ 0 \\ P \\ N \\ 6 \\ W \\ S \\ R \\ 7 \\ T \\ X \\ Y \\ \hline \\ \textbf{8} \\ Z \\ V \\ U \\ \hline \\ \textbf{General} \\ \hline \\ \textbf{Ground} \\ a \\ \end{array}$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c cccc} \text{MP-41 Series} \\ \hline 16 \text{ Ch} & \pm & - & \text{G} \\ \hline 1 & \text{W} & \text{f} & \text{r} \\ \hline 2 & \text{J} & \text{R} & \text{a} \\ \hline 3 & \text{k} & \text{v} & \text{AC} \\ \hline 4 & \text{E} & \text{M} & \text{V} \\ \hline 5 & \text{e} & \text{q} & \text{y} \\ \hline 6 & \text{B} & \text{H} & \text{P} \\ \hline 7 & \text{Z} & \text{j} & \text{u} \\ \hline 8 & \text{D} & \text{L} & \text{U} \\ \hline 9 & \text{d} & \text{p} & \text{x} \\ \hline 10 & \text{A} & \text{G} & \text{O} \\ \hline 11 & \text{Y} & \text{h} & \text{t} \\ \hline 12 & \text{C} & \text{K} & \text{T} \\ \hline 13 & \text{c} & \text{n} & \text{w} \\ \hline 14 & \text{F} & \text{N} & \text{X} \\ \end{array}$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	48 C           Ch           1           2           3           4           5           6           7           8           9           10           11           12           13           14           15           16	h         -         1           +         1         5           8         11         14           17         21         24           27         20         32           35         38         41           44         47	Series           50         pin           -         6           2         3           6         7           9         10           12         13           15         16           18         19           22         23           25         26           28         29           30         31           33         34           36         37           39         40           42         43           45         46           48         49
MP-62 Series	MP-62 Series		Ground z	14 F N X 15 g s AB	14 Z AA AB 15 AC AD AE	17 18	50 53	
12 Ch–39 pin	20 Ch-61 pin			16 S b m	16 AF AH AJ	19		58 59
Ch + - G	Ch + - G		000000	General	17 AK AL AM	20	60	
1 p n q	1 JJ HH NN		000000	Ground AG	18 AP AR AS	21	63	64 65
2 W A X	2 MM KK PP				19 AT AU AV	22		67 68
3 N f P	3 BB AA CC				20 AW AX AY	23	+ +	70 71
4 L e M	4 s FF W				21 AZ BA BB	24	+ +	73 74
	5 r EE V				22 BC BD BE	25 26		76 77 79 80
					23 BJ BK BL	20		83 84
6 G C H	6 e D x					28	85	
7 E b F	7 f E y				24 BM BN BP	29		89 90
8 D a Z	8 q DD U				25 BS BT BU	30	91	
9 C B Y	9 S p T				26 BV BR BF	31	94	95 96
10 U j V	10 P N R				27 BH AN s	32	97	98 99
11 i h T	11 m k n				28 W M D	33	100	101 102
12 R g S	12 L K M				General	34		104 105
General	13 J i j				Ground V	35	56	
Ground N/A	14 H G h					36		108 109
	15 g F z					37	110	
	16 d C w					38	+ +	114 115
					//000000000	39 40		117 118 120 121
	17 B A c					40	+ +	120 121
	18 b a Z				00000000	41		123 124
	19 v u Y					74	120	120 121



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139 128 129

130 131 132

133 134 135

136 137 138

140 141 142

143 144 145

150

0

43

44

45

46

47

48 General Ground

20

General

Ground

t GG X

N/A

Part Number         Page         Part Number         Page<										
12133         83         ACSIMUP AU-B         41         ACXAMPPI         63         ACSIM         10         ACHERAL         11           12280         83         ACSIMUP AU-B         41         ACXAMPPI         70         ACSIMMA         10         ACHERAL         11           12280         83         ACSIMUP AU-B         44         ACXAMPAN         70         ACXAMPAN         70 <t< th=""><th>Part Number</th><th>Page</th><th>Part Number</th><th>Page</th><th>Part Number</th><th>Page</th><th>Part Number</th><th>Page</th><th>Part Number</th><th>Page</th></t<>	Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page
12133         83         ACSIMUPAU-B         41         ACAMMPPI         63         ACSIM         10         AC4FBJ         11           12280         83         ACSIMUPAU-B         41         ACAMMPPI         63         ACSIMM         10         AC4FBJ         11           12280         83         ACSIMUPAU-B         41         ACAMMPWI         79         ACSIMM         10         AC4FBJ         11           12281         83         ACSIMUPAU-B         42         ACAMMPUAU-B         86         ACCSIMUE AU-B         64         ACAMMPUAU-B         86         ACSIMUE AU-B         70         AC4FBJ         12         ACSIMUE-AU-B         42         ACCSIMUE-AU-B         86         ACSIMUE AU-B         70         ACAMPA         70         AC4FBJ         70         AC4FBJ         70         AC4FBJ         70         ACAMAPA         70         ACSIMUE AU-AU-B         70         ACAMAPA         70         ACAMAPA         70         ACSIMUE AU-AU-B         70         ACAMAPA         70         ACAMAPAA         70         ACAMAPAA <td< td=""><td>112119</td><td>83</td><td>AC3FBVB1-AU-B</td><td>41</td><td>AC3M3MBW</td><td>79</td><td>AC3MIB-AU</td><td>16</td><td>AC4FB BULK</td><td>11</td></td<>	112119	83	AC3FBVB1-AU-B	41	AC3M3MBW	79	AC3MIB-AU	16	AC4FB BULK	11
11257         B3         ACSIMPLA         41         ACSIMPLE         63         ACSIM         10         ACHBU         11           112568         B3         ACSIMPLIA         B4										
112508         68         ACCENTRE-AL-B         41         ACSMMEN         79         ACSMMELL         10         ACAPTIZ         22           112509         68         ACCENTREL-AL-B         42         ACSMMEN         10         ACAPTIZ         24           112519         68         ACCENTREL-AL-B         42         ACSMMEN         10         ACAPTIZ         24           112519         68         ACCENTREL-AL-B         42         ACSMMEN         10         ACAPTIZ         24           112509         68         ACCENTRE-AL-B         42         ACSMMEN         10         ACAPTIZ         24           112509         68         ACCENTRE-AL-B         42         ACSMMEN         10         ACAPTIZ         24           112509         88         ACCENTRE-AL-B         44         ACSMMEN         10         ACSMMER         14         ACAPTIZ         11           112509         88         ACCENTRE-B         14         ACSMMEN         10         ACSMMER         14         ACAPTIZ         11           112509         88         ACCENTRE         14         ACSMMEN         13         ACAPTIZ         12         ACAPTIZ         12         ACAPTIZ         12 <td></td>										
11500         63         ACCEPTINEL ALLE         42         ACCENT         75         ACCENT         10         ACCENT         24           112519         63         ACCENT         42         ACCENT         55         ACCENT         10         ACCENT         24           112521         63         ACCENT         42         ACCENT         55         ACCENT         10         ACCENT         24           112521         63         ACCENT         42         ACCENT         42         ACCENT         42         ACCENT         42         ACCENT         44         ACCENT         14         ACCENT <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>10</td><td>AC4FDZ</td><td>24</td></t<>								10	AC4FDZ	24
112519         63         ACSEMUS_ALLB         24         ACSEMUS_ALLB         35         ACSEMUS_ALLB         10         ACATEWES_ALLB         24           112555         63         ACSEMUS_ALLB         41         ACSEMUS_ALLB         35         ACSEMUS_ALLB         24           112555         63         ACSEMUS_ALLB         41         ACSEMUS_ALLB         35         ACSEMUS_ALLB         24           112555         63         ACSEMUS_ALLB         42         ACSEMUS_ALLB         35         ACSEMUS_ALLB         34         ACSEMUS_ALLB         35         ACSEMUS_ALB         36					AC3M5FW	79	AC3MM-AU	10	AC4FDZ BULK	24
112565         85         ACSEMPLE-LIAE         41         ACSEMPLE-LIAE         51         ACSEMPLE-LIAE         61         ACSEMPLE-LIAE         62           112606         83         ACSEMPLE-LIAE         52         ACSEMPLE-LIAE         55         ACSEMPLE-LIAE         52         ACSEMPLE-LIAE         52         ACSEMPLE-LIAE         53         ACSEMPLE-LIAE         54         ACSEMPLE-LIAE         55         ACSEMPLE-LIAE         54         ACSEMPLE-LIAE         55         ACSEMPLE-LIAE         55         ACSEMPLE-LIAE         55         ACSEMPLE-LIAE         55         ACSEMPLE-LIAE         56         ACSEMPLE-LIAE         56         ACSEMPLE-LIAE         56         ACSEMPLE-LIAE         56         ACSEMPLE-LIAE         56         ACSEMPLE-LIAE         56         ACSEMME-LIAE         56 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>AC3MMB</td> <td>10</td> <td>AC4FDZ-AU</td> <td>24</td>							AC3MMB	10	AC4FDZ-AU	24
112006         63         ACSTRVL-AULB         42         ACSMARD-AULB         55         ACSMARD-BUK         14         ACATEZE-AU         24           112551         63         ACSTRVL-AULB         42         ACSMARD-BUK         14         ACATEZE-AU         24           112551         63         ACSTRVL-AU-B         42         ACSMARD-BUK         14         ACATEZE-AU         24           112555         63         ACSTRVL-AU-B         44         ACSMARD-AU-B         36         ACSMARD-AU         23         ACATEZE-AU         28           112555         63         ACSTRVL-AU-B         44         ACSMARD-AU-B         36         ACSMARD-AU         23         ACATEZE AU         28           112556         63         ACSTRVL-AU-B         44         ACSMARD-AU-B         36         ACSMARD-AU         23         ACATEZE AU         28           112556         63         ACSTRVL-AU-B         44         ACSMARD-AU-B         36         ACSMARD-AU         23         ACATEZE AU         28           112556         63         ACSTRVL-AU-B         36         ACSMARD-AU         23         ACATEZE AU         28         ACATEZE AU         24         14         ACSMARD-AU         11         A	112521	83	AC3FBVBL3-AU-B	42	AC3MAH1-AU-B	35	AC3MMB BULK	10	AC4FDZB	24
11250         B3         ACSTRV2-AU-B         42         ACSMAPP         14         ACATR2V         24           112501         B3         ACSTRV2-AU-B         41         ACSMAPA-B         55         ACSMADP-AU-B         14         ACATACP           112502         B3         ACSTRPV-AU-B         41         ACSMAPA-AU-B         55         ACSMADP-AU-B         14         ACATACP           112505         B3         ACSTRPV-AU-B         4         ACSMAPA-AU-B         56         ACSMADP-AU-B         4         ACATACP         28           112505         B3         ACSTRP-AU         14         ACSMAPA-AU-B         56         ACSMADPA-AU-B         56         ACATACPA         28           112505         B3         ACSTRP-AU         14         ACSMADPA-AU-B         56         ACSMADPA-AU-B         56         ACSMADPA-AU-B         56         ACSMADPA-AU-D         28         ACATAPA         24         710070         84         ACSTRP-AU         14         ACSMADPA         28         ACATAPA         36         ACSMADPA         28         ACATAPA         28         ACATAPA         28         ACATAPA         36         ACSMADPA         28         ACATAPA         36         ACSMADPA         28	112565	83	AC3FBVBL-AU-B	41	AC3MAH2-AU-B	35	AC3MMB-AU	10	AC4FDZB BULK	24
11251         IS         ACSTRVI-APURE         42         ACSMARL-SWE         SS         ACSMARCP         14         AC4F02/08         24           112582         BA         ACSTRVI-APURE         14         ACSMARCP         14         ACSMARCP         14         ACSMARCP         14         ACSMARCP         14         ACSMARCP         14         ACSMARCP         1285         ACSTRCP         14         ACSMARCP         15         ACSMARCP         23         ACAPTEZ         23         ACAPTEZ         24         ACSTRCP         1285         ACSTRCP         14         ACSMARCP         35         ACSTRCP         23         ACAPTEZ         23         ACAPTEZ         24         ACAPTEZ         24         ACAPTEZ         24         ACAPTEZ         24         ACAPTEZ         ACAPTEZ         24         ACAPTEZ         ACAPTEZ         ACAPTEZ         ACAPTEZ         ACAPT	112606	83	AC3FBVL1-AU-B	42	AC3MAH3-AU-B	35	AC3MMBJ			
112552         IS         ACSTROV.AU-B         II         ACSTMORP-AU         II         ACAPLJ         II           112555         B3         ACSTCP         IL         ACSTMORP-AU         II         ACSTMORP-AU         III         ACSTMORP-AU         III         ACSTMORP-AU         III         ACSTMORP-AU         III         ACSTMORP-AU         IIII         ACSTMORP-AU         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	112950	83	AC3FBVL2-AU-B	42	AC3MAH4-AU-B	35	AC3MMCP			
11255         83         ACSTCP         14         ACSMAL         10         ACSMMCPJ         14         ACSMMCPJ         128         ACAPPZ         28           112555         83         ACSTCP AUL         14         ACSMMCPJ AULA         56         ACSMMCPJ AULA         23         ACAPPZ AULA         28           112556         83         ACSTCP AULK         18         ACSMACPJ AULA         36         ACSMMCPJ AULA         23         ACAPPZ AULA         28           117560         84         ACSTCPI AULK         18         ACSMMCPJ AULA         38         ACSMCPJ AULA         28         ACAPPZ AULA         28           47-10110         84         ACSTCPI AULA         ACSMCPJ AULA         ACSMCPJ AULA         28         ACAPPZ A	112951		AC3FBVL3-AU-B		AC3MAH4-SW-B					
12555         63         AG3RCP BULK         14         AG3MAPI-AL/B         56         ACSMMD2         23         AC4FFZ BULK         28           112557         63         AC3FCP         18         AC3MAPI-AL/B         56         ACSMMD2         23         AC4FFZ         28           112557         63         AC3FCP         18         AC3MAPI-AL/B         56         ACSMMD2         23         AC4FFZ         28           47:1010         84         AC3FCP         18         AC3MAPI-AL/B         56         ACSMMD2         23         AC4FFZ         80           47:1010         84         AC3FCP         18         AC3MBULK         10         ACSMMD2         23         AC4FR         15           47:1010         84         AC3FCP         15         AC3MBULK         10         ACSMMD2         23         AC4FR         15           5500005:734         79         AC3FCPH         56         AC3MBULA-LB         39         AC3MMD2         28         AC4FR         11         AC3SMD2         AC4FR         11         AC3MD2         AC4FR         11         AC3FCPH         14         AC3MD4-LB         39         AC3MD1         28         AC4HR         11										
112565         83         ACSTCP-AU         14         ACSMAR2-AL-B         86         ACSMM02 BULK         23         ACAFF2-AU         28           112585         83         ACSTCP-AU         16         ACSMAR2-AL-B         86         ACSMM02B         23         ACAFF2B         28           112586         83         ACSTCP-AU         14         ACSMAR2-AL-B         86         ACSMM02B         23         ACAFF2B         28           47-10070         84         ACSTCP-AU         14         ACSMB         10         ACSMM02B         23         ACAFF2B         28           47-1010         84         ACSTCP-BULK         58         ACSMB+AU         10         ACSMM02B         23         ACAFF         25           5200002-732         79         ACSTCPH BULK         58         ACSMB+AL-B         39         ACSMMP2B         28         ACAMM         11         ACSTFPH         11         ACSMFPL AL-B         39         ACSMMP2B         26         ACAMA         11         ACSMFPL         11         ACSMFPL         26         ACAMM         11         ACSTFPL         26         ACAMA         11         ACSMFPL         11         ACSMFPL         26         ACAMA         11										
112557         83         AC3CPCPI         18         AC3MA/S-AU-B         36         AC3MM02-AU         23         ACAFP2B ULK         28           47-10070         84         AC3CPFB ULK         18         AC3MA/AU-B         36         AC3MM02B         23         ACAFP2B ULK         28           47-10100         84         AC3CPFB         18         AC3MB         10         AC3MM02B-AU         23         ACAFP2B ULK         28           47-10110         84         AC3CPFB         58         AC3MBAU-B         10         AC3MM02C-AU         23         ACAFP2W         28           47-10110         84         AC3CPFB-ULK         58         AC3MBAU-AU         10         AC3MM02C         23         ACAFP2W         28           47-10120         84         AC3CPFH         58         AC3MBA-AU-B         39         AC3MM2B         10         ACAFPA         11           47-10120         74         ACAFPH         58         AC3MBA-AU-B         39         AC3MM2B         10         ACAFPA         11           47-1012         ACAFPH         60         AC3MBHB-AU-B         39         AC3MMPB-BULK         26         ACAMBA         11         AC3FPF         ACAFPA <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>										
11256         83         ACGROP BULK         18         ACGMAVA-AU-B         56         ACGMM2D2         23         ACAFP2B-AU         28           47-10070         84         ACGROP         14         ACGMAVA-AU-B         56         ACGMM2D2-AU         23         ACAFP2B-AU         28           47-1010         84         ACGROP         55         ACGMB BULK         10         ACGMM0ZVB         23         ACAFP2VB         28           47-10120         84         ACGROP         55         ACGMB-AU         10         ACGMM0ZVB         23         ACAFP           1255000         71         73         ACGROP         58         ACGMB-AU         10         ACGMM0ZVB         23         ACAFP           1250000         73         79         ACGROPH         58         ACGMBH2AU-AU-B         39         ACGMM0ZVB         23         ACAFP           143000         ACGROPH         62         ACGMBH2AU-AU-B         39         ACGMMAPDU         26         ACAMB           143000         ACGROPH         42         ACGMBH3AU-B         39         ACGMMPAU         26         ACAMD           143010         ACGROPH         42         ACGMBHAU-AU-B         39         ACGMMPA										
47-1000         84         ACSTPL         18         ACSMM-AU-B         86         ACSMMD2B BULK         23         ACAFP2A-UL         28           47-1010         84         ACSTPD         55         ACSMB BULK         10         ACSMMD2B-AU         23         ACAFPZV         28           47-1010         84         ACSTPD BULK         55         ACSMB-AU         10         ACSMMD2V         23         ACAFPZ         23           47-1010         84         ACSTPH BULK         58         ACSMB-AU         10         ACSMMD2V         23         ACAFR         11           5500002-737         79         ACSTPH BULK         58         ACSMB+AU-B         39         ACSMMP BULK         26         ACAMB         11         ACSTPH         11         ACSTPH         38         ACSMMP BULK         26         ACAMB         11         ACSTPH         36         ACSMMP BULK         26         ACAMB         11         ACSTPH         36         ACSMMP BULK         26         ACAMB         11         ACSTPH         36         ACSMMP BULK         26         ACAMB         11         ACSTPH         ACSTPH         36         ACSMMP BULK         26         ACAMD2         14         ACSTPH         ACSTPH <td></td>										
47-1010         84         ACSTPP         14         ACSMMP         10         ACSMMP2E-AU         23         AC4FP2V         28           47-1010         84         ACSTPP         86         ACSMB Bulk         10         ACSMMD2F-AU         23         AC4FP2V         28           47-1010         84         ACSTPP HUK         86         ACSMMP-AU         10         ACSMMD2F         23         AC4FR         11           52500005-724         79         ACSTPH         86         ACSMMP-AU         89         ACSMMD2F         23         AC4FR         11           52500005-724         79         ACSTPH         86         ACSMMP-AU         89         ACSMMP         28         AC4MA         11           ACSTPH         10         ACSTPH         10         ACSTPH         86         ACSMMPA         89         ACSMMPH         28         AC4MBA         11           ACSTPH         63         ACSTPH         10         ACSMMPHAU         89         ACSMMPHAU         26         AC4MBA         24         ACSMMPHAU         26         AC4MD2         24         ACSTP         23         ACSMMPAU         26         AC4MD2         24         ACSSMPHAU         26         A										
47-10110         84         ACSEPP         58         ACSMM BULK         10         ACSMM22F-AU         23         AC4FPA         15           47-10120         84         ACSEPP BULK         58         ACSMMET-AL-B         39         ACSMMID2VB         23         AC4M         11           5200002-732         79         ACSEPPH BULK         58         ACSMMET-AL-B         39         ACSMMID2VB         23         AC4M         11           5200002-732         79         ACSEPPH         68         ACSMMET-AL-B         39         ACSMMP         24         AC4MB         11           5200002-732         79         ACSEPPH         62         ACSMMET-AL-B         39         ACSMMP BULK         26         AC4MB         11           ACSEPPH         10         ACSEPPH         62         ACSMEPLA-B         39         ACSMMP-AU         26         AC4MD2         21         AC4MD2         21         AC4MD2         24         ACSMMP2         23         AC4MD2         24         ACSMMP2         24         ACSMMP2         24         ACSMMP2         24         ACSMMP2         24         AC4MD2         24         ACSMMP2         24         ACSMMP2         24         AC4MD2         24										
47-10120         84         ACSIRP BULK         58         ACSIMPLAUE         10         ACSIMINZY         23         AC4FR         15           52500005-734         79         ACSIRPH         58         ACSIMPLAUE         39         ACSIMPLY         23         AC4M         11           52500005-734         79         ACSIRPH         58         ACSIMPLAUE         39         ACSIMP         25         AC4MA         11           ACSF         10         ACSIRPH         58         ACSIMPLAUE         39         ACSIMPP 25         AC4MA         11           ACSF BULK         10         ACSIRPH         62         ACSIMPE BULK         22         ACSIMPE BULK         25         AC4MAB         11           ACSIRPH         63         ACSIRPH         63         ACSIRPH         63         ACSIRPH         26         ACSIMPE AUE         28         AC4MAD         11           ACSIRPH         79         ACSIRPH         58         ACSIMPE AUE         38         ACSIMPE AUE         28         AC4MAD         24           ACSIRPH         79         ACSIRPH         58         ACSIMPLAUE         38         ACSIMPLAUE         28         AC4MAD         28         AC4MAD										
17:10150         84         ACSMP1-1         58         ACSMMB1-AL-B         39         ACSMMD2VB         23         AC4M         11           5200002-732         79         ACSRPH BULK         58         ACSMB1-AL-B         39         ACSMMP         26         AC4M BULK         11           ACSF         10         ACSRPH BULK         58         ACSMB1-AL-B         39         ACSMMP-BULK         26         AC4MB JUL         11           ACSF         10         ACSRPH         58         ACSMB1-AL-B         39         ACSMMP-BULK         26         AC4MB JUL         11           ACSF         79         ACSRPH         62         ACSMB1-AL-B         39         ACSMMP-BULK         28         AC4MB JUL         11           ACSFRPH         63         ACSRPH         62         ACSMB1-AL-B         39         ACSMMP-BULK         28         AC4MB2         24           ACSSRPH         63         ACSRPH         58         ACSMB1-AL-B         39         ACSMMP-AL         28         AC4MD2         24           ACSSRPH         79         ACSRPH         58         ACSMB1-AL-B         39         ACSMMP-AL         26         AC4MD2         24           ACSSRPM										
52500007-274         79         AC3FDPH BULK         58         AC3MMBFA-L/-B         39         AC3MMP         26         AC4MA ULI         11           AC3F         10         AC3FDPH         EB         AC3MBFA-L/-B         39         AC3MMP-AULK         26         AC4MA ULIK         11           AC3F         10         AC3FDPH         E2         AC3MBFA-L/-B         39         AC3MMP-AULK         26         AC4MB BULK         11           AC3FSFWI         79         AC3FDPH         E2         AC3MBHBA-L/-B         39         AC3MMPE         26         AC4MB-L         11           AC3FSFWI         79         AC3FDPI BULK         E2         AC3MBHBA-L/-B         39         AC3MMPE         26         AC4MD2         24           AC3FSFWI         79         AC3FDPL         S8         AC3MBHA-L/-B         39         AC3MMPFLAU         26         AC4MD2 EULK         24           AC3FSFWIM         63         AC3FDPL         S8         AC3MBHA-L/-B         39         AC3MMPFLAU         26         AC4MD2 AULK         24           AC3FSFWIM         63         AC3FDPL         S8         AC3MBHA-L/-B         39         AC3MMPFLAU         26         AC4MDA         24										
5250005-722         ??         AC3FPDH_BULK         58         AC3MBH-AL-B         39         AC3MMP BULK         26         AC4MAB         11           AC3F BULK         10         AC3FPDH         62         AC3MBH-AL-B         39         AC3MMP BULK         26         AC4MB         11           AC3FSPFPI         63         AC3FPDH         62         AC3MBHB2-AL-B         39         AC3MMPB         26         AC4MB-AL         11           AC3FSPFPI         63         AC3FPDH         62         AC3MBHB2-AL-B         39         AC3MMPB         26         AC4MB-AL         11           AC3FSPFPI         63         AC3FPDH         62         AC3MBHB2-AL-B         39         AC3MMPE         26         AC4MD2         24           AC3FSPM         79         AC3FPD-BULK         58         AC3MBL-AL-B         39         AC3MMPZ         26         AC4MD2 BULK         24           AC3FSMPT         63         AC3FPD-FBULK         58         AC3MBV-AL-B         40         AC3MMPZLAU-L         26         AC4MD2 BULK         24           AC3FSMPT         63         AC3FPD-FBULK         58         AC3MBV-AU-B         39         AC3MMPZLAU-L         26         AC4MD2 BULK         24										
AC3F         ID         AC3CHDHL         SB         AC3MMP-AU         26         AC4MB         11           AC3F BULK         10         AC3CHDH         62         AC3MBHB1-AU-B         39         AC3MMP-AU         26         AC4MB         11           AC3F3FPW         79         AC3FDPI         62         AC3MBHB3-AU-B         39         AC3MMPB DLK         26         AC4MB         11           AC3F3FPH         63         AC3FDPI         62         AC3MBHB1-AU-B         39         AC3MMPB AU         26         AC4MD2         24           AC3F3FMW         79         AC3FDPI         58         AC3MBHB1-AU-B         39         AC3MMPRAU         26         AC4MD2         24           AC3FMMW         79         AC3FDPV         58         AC3MBV-AU-B         40         AC3MMPRAU         26         AC4MD2         24           AC3FMMPTL         63         AC3FDPV         58         AC3MBV-AU-B         40         AC3MMPRAU         26         AC4MD2         24           AC3FMMPTL         63         AC3FDPV         58         AC3MBV-AU-B         40         AC3MMPRAU         26         AC4MD         27           AC3FMM         79         AC3FDPU         <										
ACST PULK         10         ACSTPPI         62         AC3MMPH         39         AC3MMPE         26         AC4MB         BULK         11           ACSTSPPN         63         ACSTPDI         62         ACSMMPE         39         AC3MMPE         26         AC4MB         111           ACSTSPPN         63         ACSTPDI         62         ACSMMPE         39         AC3MMPE         AC4MMPZ         24           ACSTSPNW         79         ACSTPDI         58         ACSMMBHALAU-B         39         AC3MMPZ         26         AC4MADZ         24           ACSTSMW         79         ACSTPDI         58         ACSMMBHALAU-B         39         AC3MMPZ         26         AC4MADZ         24           ACSTMMPT         63         ACSTPDV         58         ACSMMPZ-AU-B         40         AC3MMPZA         26         AC4MADZ         24           ACSTMMPT         79         ACSTPDVL         58         ACSMMPZA-U-B         40         AC3MMPZA         26         AC4MADZ         24           ACSTMATAU-B         37         ACSTPDZ         34         ACSMMPZA         26         AC4MADZ         24         ACSTPDZ         AC4MADZ         AC4MADZ         24         ACST										
AC3578PW         79         AC357PPI         63         AC357PPI         16         84         AC3MBU-AU-B         90         AC35MMP2-AU-B         26         AC4MD28         24         AC35MMP7-AU-B         40         AC3MMP7-AU-B         40         AC3MMP7-AU-B         40         AC3MMP7-AU-B         40         AC3MMP7-AU-B         40         AC3MMP7-AU-B         40 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>										
Incress         Incress         ACSMPPL         62         ACSMMPB-AUL         39         ACSMMPB-AUL         26         ACAML         11           AC373FPL         63         ACSFPDL         58         ACSMBHE-AULB         39         ACSMMPF-AUL         26         ACAMD2         24           AC373FW         79         ACSFPDL         58         ACSMBHE-AUB         39         ACSMMPT2         26         ACAMD2         24           AC373MPV         78         ACSFPDL         58         ACSMBH-AUB         39         ACSMMPT2-AU         26         ACAMD2         24           AC373MPV         78         ACSFPDV         58         ACSMBV-AUB         40         ACSMMPT2-AU         26         ACAMD2         24           AC37MW         79         ACSFPDV         58         ACSMBV-AUB         40         ACSMMPT2         26         ACAMD2         24           ACSFMUT         58         ACSMEV-AU-B         39         ACSMMPT2         26         ACAMD2         24           ACSFMUT-AUB         37         ACSFPD2         23         ACSMEV-AU-B         39         ACSMMPT2         26         ACAMD2         27           ACSFPD2         23         ACSMEV-AU-B										11
AC3378PPL         63         AC357PPL         64         AC357PL         23         AC367PL         40         AC357PL         26         AC4MD2         24           AC357PL         23         AC37PL7-AU         23         AC37PL7-AU         64         AC37PPL         26         AC4MD2         27           AC357PL         23         AC37PL7-AU         23         AC37PL7-AU         26         AC4MP         27           AC37PL-AU-B         37         AC37PD2 AU         23         AC37PL7-AU         37							AC3MMPB BULK	26	AC4MBJ	11
AC378MBW         79         AC37BVP         S8         AC3MBVH-LAU-B         39         AC3MBVPR2BULK         26         AC4MD2A         24           AC37SMPPL         63         AC37BVP SULK         58         AC3MBV1-AU-B         40         AC3MMVPR2B         26         AC4MD2B         24           AC37BMV         79         AC37BVVL         58         AC3MBV2-AU-B         40         AC3MMVPR2B         26         AC4MD2A         24           AC37BMV         79         AC37BVVL         58         AC3MBV2-AU-B         40         AC3MMVPR2B         26         AC4MD2V         24           AC37BMVL         36         AC37BVZ         23         AC3MBV2AU-B         40         AC3MMVPR2B         26         AC4MD2V         24           AC37BM2AU-B         37         AC37BVZ         23         AC3MBV2AU-B         40         AC3MMPR2V         26         AC4MP         27           AC37BML2AU-B         37         AC37BVZ         23         AC3MDV3AU-B         40         AC3MMPR2V         26         AC4MP         27           AC37BVL2AU-LB         37         AC37BVZ         23         AC3MDP         14         AC3MPA         27         AC4MPA         27         AC4MPA			AC3FDPIL BULK		AC3MBHB-AU-B		AC3MMPB-AU	26	AC4MDZ	24
LCCSTMPPI         63         ACCMD2B         24         ACCMD2B         24           ACCSTMPPIL         63         ACCSTMPPIL         63         ACCSTMPPIL         63         ACCSTMPPIL         63         ACCSTMPPIL         84         ACCMM2B BULK         26         ACAMD2B AUL         24           ACCSTMPV         79         ACCSTPVL         58         ACCMM2LA         40         ACCMM2D BULK         28         ACAMD2A         24           ACCSFMW         79         ACCSTPUL         23         ACCMM2A         40         ACCMM2D BULK         28         ACAMD2A         24           ACCSFAULALB         37         ACCSTPUL         23         ACCMMVB2ALLB         40         ACCMMPRUV         28         ACAMD2         27           ACCSFAULALB         37         ACCSTPUL         23         ACCMMVB2ALLB         40         ACCMMPRUV         28         ACAMP         27           ACCSFAULALB         37         ACCSTPUZ         23         ACCMVPALALB         39         ACCMMPRUV         28         ACAMP         27         ACAMP         27         ACAMP         27         ACAMPS BULK         27         ACAMPS BULK         27         ACAMPS BULK         27         ACAMPS BULK         27	AC3F3FW	79	AC3FDPL	58	AC3MBHBL-AU-B	39	AC3MMPNZ	26	AC4MDZ BULK	24
CCSTBMPPIL         63         CCSTBMP         63         CCSTBMP         58         CCSTBMP         24           ACSTAH2         34         CCSTBMP         23         ACSIMPS-ALU-B         40         ACSIMPTRZ         25         ACAMDZV         24           ACSTAH2         31         ACSTDZ         23         ACSIMPS2-ALU-B         39         ACSIMPTRZ         25         ACAMP         25         ACAMP         25         ACAMP         25         ACAMP         27         ACAMP         27 <td>AC3F3MBW</td> <td>79</td> <td>AC3FDPL BULK</td> <td>58</td> <td>AC3MBHL-AU-B</td> <td>39</td> <td>AC3MMPNZ BULK</td> <td>26</td> <td>AC4MDZ-AU</td> <td></td>	AC3F3MBW	79	AC3FDPL BULK	58	AC3MBHL-AU-B	39	AC3MMPNZ BULK	26	AC4MDZ-AU	
AC3F3MW         79         AC3FDPVL         58         AC3MBV2-AU-B         40         AC3MMPRZB BULK         26         AC4MDZB-AU         26         AC4MDZB-AU         26         AC4MDZB-AU         26         AC4MDZVB         24           AC3FAH2-LH-B         36         AC3FDZ         23         AC3MBVAL-B         39         AC3MMPRZD-AU         26         AC4MDZVB         26         AC4MDZ         24           AC3FAH2-LH-B         37         AC3FDZ         23         AC3MVB1-LB-B         40         AC3MMPVB2         26         AC4MP         27           AC3FAH2-LH-B         37         AC3FDZB         BULK         23         AC3MVB2-AU-B         40         AC3MMPVB         26         AC4MP BULK         27           AC3FAH2-AU-B         37         AC3FDZB BULK         23         AC3MVP-AU-B         39         AC3MP BULK         27         AC4MPB BULK         27           AC3FAU-AU-B         37         AC3FDZVB         23         AC3MVP-AU         14         AC3MP BULK         27         AC4MPB BULK         27           AC3FAU-AU-B         37         AC3FDZVB         23         AC3MVP-AU         14         AC3MPAU         27         AC4MPRZB-AU         27           AC3FAU-AU	AC3F3MPPI	63	AC3FDPV	58	AC3MBJ	10	AC3MMPNZ-AU			
ICCSFSMV         T9         ACSFPUL BULK         58         ACSMPUL-AULB         40         ACSMPULABULK         26         ACMDZV         24           ACSFAHL-AU-B         37         ACSFDZ BULK         23         ACSMPULAU-B         40         ACSMMPRZVB         26         ACMMD         11           ACSFAHLAU-B         37         ACSFDZ BULK         23         ACSMMVLAU-B         40         ACSMMPVD         26         ACMMD         27           ACSFAHLAU-B         36         ACSFDZB         23         ACSMMVS-AU-B         40         ACSMMPVD         26         ACMMP BULK         27           ACSFAUL-AU-B         37         ACSFDZB-AU         23         ACSMMVS-AU-B         39         ACSMMR         15         ACMPBULK         27           ACSFAUL-AU-B         37         ACSFDZV         23         ACSMPD-AU         14         ACSMP BULK         27         ACMMPAB         27           ACSFAU-B         37         ACSFDZV         23         ACSMPD-AU         14         ACSMP BULK         27         ACMMPAC         27           ACSFAU-AU-B         37         ACSFBUZNE         23         ACSMPD-AU         17         ACSMPAU         27         ACMMPAU         27										
ICCFAMI-AU-B         36         ACSTRUZ         23         ACSMEY-AU-B         39         ACSMMPNZV         26         ACAMDZVB         24           ACSFAH2-AU-B         37         ACSTPUZ-AU         23         ACSMBVPAU-B         40         ACSMMPVVB         26         ACAMU         11           ACSFAH3-AU-B         37         ACSTPUZ-AU         23         ACSMBVP3-AU-B         40         ACSMMPVV         26         ACAMP         27           ACSFAH1-AU-B         37         ACSTPUZ         ACSMDVB3-AU-B         40         ACSMMPVV         26         ACAMP AU         27           ACSFAH1-AU-B         37         ACSTPUZ         ACSMDVB-AU-B         39         ACSMMPVAU-B         37         ACSMPPAU         27         ACAMPE         27         ACAMP	AC3F3MW									
ACSFAH2-ALB         37         ACSID2 BULK         23         ACSMEYB-ALB         40         ACSIMIPINZYB         26         ACAMJ         11           ACSFAH3-ALB         37         ACSID2-AU         23         ACSIMEYB-ALB         40         ACSIMIPNZYB         26         ACAMJP         27           ACSFAH1-ALB         37         ACSID2B         23         ACSIMEYB-ALB         39         ACSIMIPNZYB         26         ACAMP         27           ACSFAH1-ALB         37         ACSID2B         ACSIMEYB-ALB         39         ACSIMIPNZYB         27         ACAMPP         27           ACSFAH1-ALB         37         ACSID2V         23         ACSIMCP-AU         14         ACSIMP BULK         27         ACAMPB BULK         27           ACSFAL1-ALB         37         ACSIPTZYB         23         ACSIMCP-AU         14         ACSIMP BULK         27         ACAMPB BULK         27           ACSFAL3-ALB         37         ACSIPTZYB         23         ACSIMCP-AU         18         ACSIMP BULK         27         ACAMPRZ BULK         27           ACSFAL3-ALB         38         ACSIFH         16         ACSIMCPLU         18         ACSIMPRZ BULK         27         ACAMPRZ BULK         27										
ICCFAND-AU         37         ACSTP2-AU         23         ACSMEV2-AU-B         40         ACSMMPV         26         ACAMP         27           ACSFAH-AU-B         36         ACSTP2B         23         ACSMEVS-AU-B         40         ACSMMPV         26         ACAMPP BULK         27           ACSFAHL2-AU-B         37         ACSTP02F-AU         23         ACSMVPS-AU-B         39         ACSMMPR         15         ACAMPB BULK         27           ACSFAHL2-AU-B         37         ACSTP02F-V         23         ACSMVP AU-B         39         ACSMPR BULK         27         ACAMPB BULK         27         ACAMPB BULK         27         ACAMPP AU										
ACCEPTALLE         36         CCEPTOR         23         ACCIMPERALLE         40         ACCIMMEVE         26         ACAMP BULK         27           ACSFAHL2-AU-B         37         ACSFDZB BULK         23         ACSIMEVB-AU-B         39         ACSIMINR         15         ACAMP BULK         27           ACSFAHL2-AU-B         37         ACSFDZB-AU         23         ACSIMEVP-AU-B         39         ACSIMINR         15         ACAMP BULK         27           ACSFAHL3-AU-B         37         ACSFDZB         23         ACSIMEVP-AU         14         ACSIMP BULK         27         AC4MPB-BULK         27           ACSFAU-LAU-B         37         ACSFB BULK         16         ACSIMCP-AU         14         ACSIMPB AU         27         AC4MPE AU         27           ACSFAU-LAU-B         38         ACSFIB         16         ACSIMCPI BULK         18         ACSIMPE AU         27         AC4MPNZ BULK         27           ACSFAV2-AU-B         38         ACSFIB         16         ACSIMCPI BULK         18         ACSIMPNZ BULK         26         AC4MPNZ BULK         27           ACSFAV2-AU-B         38         ACSFIP         10         ACSIMDPH         18         ACSIMPNZ BULK         26 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
ACGFARLI-AL-B         S7         ACGFDZB BULK         S3         ACGMMR         15         ACGMMR         27           ACGFARLI-2AU-B         S7         ACGFDZB BULK         S3         ACGMVP BULK         ACGMMP         27         ACGMMP BULK         27           ACGFARLI-AU-B         S7         ACGFDZB BULK         S3         ACGMVP BULK         14         ACGMP BULK         27         ACGMMPB BULK         27           ACGFAU-LAU-B         S7         ACGFAU-LAU-B         S7         ACGMPZB         S3         ACGMVP-AU         14         ACGMPPAU         27         ACGMMPZ         27           ACGFAU-LAU-B         S7         ACGFAU-LAU-B										
AC3FAHL2-AU-B         37         AC3DZB-AU         23         AC3MOP         14         AC3MP         27         AC4MPB         27           AC3FAHL3-AU-B         37         AC3DZDV         23         AC3MCP-AU         14         AC3MP-AU         27         AC4MPB BULK         27         AC4MPB BULK         27         AC4MPB-AU         27           AC3FAHL-AU-B         37         AC3FD2VS         23         AC3MCP-I         14         AC3MPAU         27         AC4MPB-AU         27           AC3FAVL-AU-B         37         AC3FBULK         16         AC3MCPI         18         AC3MPB BULK         27         AC4MMPNZ BULK         27           AC3FAV2-AU-B         38         AC3FIB-AU         16         AC3MCPI-AU         18         AC3MPNZ         26         AC4MPNZB BULK         27           AC3FAV1-AU-B         38         AC3FIP         10         AC3MDP BULK         58         AC3MPNZB AU         26         AC4MPNZB AU         27           AC3FAV1-AU-B         38         AC3FPP         60         AC3MDPH BULK         58         AC3MPNZB AU         26         AC4MPNZB AU         27           AC3FAV1-AU-B         38         AC3FPPH         60         AC3MDPH BULK         58<										
ACGFARLSAU-B         S7         ACGSPDZV         23         ACGMCP BULK         14         ACGMP BULK         27         AC4MPB BULK         27           ACGFAU         10         ACG3H         16         ACGMCPL         18         ACGMPAU         27         AC4MPB-AU         27           ACGFAVI-AU-B         37         ACG3H DULK         16         ACGMCPL         18         ACGMPB-AU         27         AC4MPNZ U         27           ACGFAVI-AU-B         38         ACG3H-AU         16         ACGMCPLAU         18         ACGMPB-AU         27         AC4MMPX BULK         27           ACGFAV2-AU-B         38         ACG3HB-AU         16         ACGMCPLAU         18         ACGMPB-AU         27         AC4MMPXB BULK         27           ACGFAV2-AU-B         37         ACGFAN2-AU-D         38         ACGFAN2         14         ACGMPAZ         26         AC4MPNZB AU         27           ACGFAV2-AU-B         38         ACGFPP         10         ACGMDP         58         ACGMPNZB AU         26         AC4MPNZB AU         27           ACGFAV2-AU-B         38         ACGFPP         60         ACGMDPH         58         ACGMPNZB AU         26         AC4MPNZV         27 <td></td>										
AC3FAHLAUB         37         AC3FDZVB         23         AC3MCP-AU         14         AC3MPAU         27         AC4MPBAU         27           AC3FAU         10         AC3FI         16         AC3MCPI         18         AC3MPB         27         AC4MPNZ         27           AC3FAV1-AU-B         37         AC3FI BULK         16         AC3MCPI BULK         18         AC3MPB AU         27         AC4MPNZ BULK         27           AC3FAV2-AU-B         38         AC3FIB         16         AC3MCPI AU         18         AC3MPB-AU         27         AC4MPNZ BULK         27           AC3FAV2-AU-B         38         AC3FIB         16         AC3MOP         58         AC3MPNZ BULK         26         AC4MPNZB AUK         27           AC3FAV2-AU-B         38         AC3FP         10         AC3MDP         58         AC3MPNZ-AU         26         AC4MPNZB AUK         27           AC3FAV1-AU-B         38         AC3FPP         60         AC3MDPH         58         AC3MPNZAU         26         AC4MPNZVB         27           AC3FAV1-AU-B         38         AC3FPP BULK         60         AC3MDPH         58         AC3MPNZB         26         AC4MPNZ BULK         27										
AC3FAU         10         AC3FI         16         AC3MCPI         18         AC3MPB         27         AC4MPNZ         27           AC3FAU1-AU-B         37         AC3FI         BULK         16         AC3MCPI         18         AC3MPB         27         AC4MPNZ         27           AC3FAV2-AU-B         38         AC3FI         AC3FI         16         AC3MCPI         18         AC3MPB         27         AC4MPNZ         27           AC3FAV2-AU-B         38         AC3FI         16         AC3MCPI         18         AC3MPNZ         26         AC4MPNZAU         27           AC3FAV1-AU-B         38         AC3FP         10         AC3MDP         58         AC3MPNZ         26         AC4MPNZB-AU         27           AC3FAV1-AU-B         38         AC3FP         60         AC3MDPH         58         AC3MPNZB         26         AC4MPNZVB         27           AC3FAV1-AU-B         38         AC3FPP         60         AC3MDPH         58         AC3MPNZB         26         AC4MPVZ         27           AC3FAV1-AU-B         38         AC3FPP BULK         60         AC3MDPH         58         AC3MPNZU         26         AC4MPVZ         27										
AC3FR/J         AL/B         37         AC3FR BULK         16         AC3MCPI-AU         18         AC3MPB BULK         27         AC4MPNZ BULK         27           AC3FAV2-AU-B         38         AC3FIB         16         AC3MCPI-AU         14         AC3MPB-AU         27         AC4MPNZ-AU-U         27           AC3FAV3-AU-B         38         AC3FIB         16         AC3MDP         58         AC3MPNZ BULK         26         AC4MPNZB         27           AC3FAV-AU-B         38         AC3FIP         10         AC3MDP         58         AC3MPNZB ULK         26         AC4MPNZB AU-V         27           AC3FAV1-AU-B         38         AC3FPP         60         AC3MDPH         58         AC3MPNZB ULK         26         AC4MPNZVB         27           AC3FAV1-AU-B         38         AC3FPP BULK         60         AC3MDPH         58         AC3MPNZB-AU         26         AC4MPNZVB         27           AC3FB         10         AC3FPPH         60         AC3MDPH         58         AC3MPNZB-AU         26         AC4MPNZVB         27           AC3FB         10         AC3FPPH         60         AC3MDPH         58         AC3MPNZB-AU         26         AC4MPVZ         277 </td <td></td>										
AC3FAV2-AU-B       38       AC3FL-AU       16       AC3MCPI-AU       18       AC3MPE-AU       27       AC4MPNZ-AU       27         AC3FAV3-AU-B       38       AC3FB       16       AC3MCPJ       14       AC3MPNZ       26       AC4MPNZB       27         AC3FAV-AU-B       38       AC3FB-AU       16       AC3MDP       58       AC3MPNZ-AU       26       AC4MPNZB BULK       27         AC3FAVL1-AU-B       38       AC3FPP       60       AC3MDPH BULK       58       AC3MPNZ-AU       26       AC4MPNZVB BULK       27         AC3FAVL-AU-B       38       AC3FPP BULK       60       AC3MDPH BULK       58       AC3MPNZB BULK       26       AC4MPNZVB       27         AC3FAVL-AU-B       38       AC3FPP BULK       60       AC3MDPH BULK       58       AC3MPNZB BULK       26       AC4MPV       27         AC3FB       10       AC3FPPH BULK       60       AC3MDPH       58       AC3MPNZB BULK       26       AC4MPV       27         AC3FB       10       AC3FPPH       60       AC3MDPH       58       AC3MPNZB BULK       26       AC4MPV       27         AC3FB       10       AC3FPPH       60       AC3MDPH BULK       58										
AC3FAV3-AU-B         38         AC3FIB         16         AC3MCPJ         14         AC3MPNZ         26         AC4MPNZB         27           AC3FAV-AU-B         37         AC3FB-AU         16         AC3MOP         58         AC3MPNZ BULK         26         AC4MPNZB         27           AC3FAV1-AU-B         38         AC3FP         10         AC3MDP BULK         58         AC3MPNZ-AU         26         AC4MPNZB         27           AC3FAV1-AU-B         38         AC3FPP         60         AC3MDPH         58         AC3MPNZB         26         AC4MPNZV         27           AC3FAV1-AU-B         38         AC3FPP BULK         60         AC3MDPH         58         AC3MPNZB         26         AC4MPNZV         27           AC3FAV-AU-B         38         AC3FPP BULK         60         AC3MDPH BULK         58         AC3MPNZB-AU         26         AC4MPVVB         27           AC3FB         10         AC3FPPH BULK         60         AC3MDPI BULK         58         AC3MPNZB-AU         26         AC4MPV         27           AC3FB         10         AC3FPPH BULK         60         AC3MDPI BULK         58         AC3MPNZB-AU         26         AC4MPVB         27										
AC3FAVAU-B         37         AC3FB-AU         16         AC3MOP         58         AC3MPNZ BULK         26         AC4MPNZB BULK         27           AC3FAVL1-AU-B         38         AC3FP         60         AC3MOP BULK         58         AC3MPNZB ULK         26         AC4MPNZB-AU         27           AC3FAVL-AU-B         38         AC3FPP         60         AC3MOPH         58         AC3MPNZB ULK         26         AC4MPNZV         27           AC3FAVL-AU-B         38         AC3FPP BULK         60         AC3MOPH         58         AC3MPNZB ULK         26         AC4MPNZV         27           AC3FAVL-AU-B         38         AC3FPP BULK         60         AC3MOPH BULK         58         AC3MPNZB AU         26         AC4MPNVB         27           AC3FB BULK         10         AC3FPPH BULK         60         AC3MOPH         62         AC3MPNZB         26         AC4MNPV         27           AC3FBH-AU-B         40         AC3FPPH         60         AC3FPH         60         AC3FPH         26         AC4MNPVB         27           AC3FBH-AU-B         40         AC3FPPH         60         AC3FPH         60         AC3FPH         60         AC3FPH         60         AC										
AC3FAVL1-AU-B       38       AC3FP       10       AC3MDP BULK       58       AC3MPPA-AU       26       AC4MPNZP-AU       27         AC3FAVL2-AU-B       38       AC3FPP       60       AC3MDPH       58       AC3MPNZB       26       AC4MPNZV       27         AC3FAVL3-AU-B       38       AC3FPP BULK       60       AC3MDPH BULK       58       AC3MPNZB       26       AC4MPNZVB       27         AC3FAVL-AU-B       38       AC3FPPH       60       AC3MDPH BULK       58       AC3MPNZB-AU       26       AC4MPVZV       27         AC3FB       10       AC3FPPH BULK       60       AC3MDPH       58       AC3MPNZB-AU       26       AC4MPV       27         AC3FB       10       AC3FPPH BULK       60       AC3MDPI       62       AC3MPPZW       26       AC4MNVB       15         AC3FB-AU-B       40       AC3FPPH       62       AC3MDPI       62       AC3MPPZWDW       60       AC5F HU       11         AC3FBH3-AU-B       40       AC3FPPI       62       AC3MDPL       58       AC3MPPH BULK       60       AC5F AU       11         AC3FBH3-AU-B       40       AC3FPPI       60       AC3MDPL       58       AC3MPPH BULK </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>AC3MPNZ BULK</td> <td></td> <td>AC4MPNZB BULK</td> <td>27</td>							AC3MPNZ BULK		AC4MPNZB BULK	27
AC3FAVL2-AU-B       38       AC3FPP       60       AC3MDPH       58       AC3MPNZB       26       AC4MPNZV       27         AC3FAVL3-AU-B       38       AC3FPP BULK       60       AC3MDPH BULK       58       AC3MPNZB BULK       26       AC4MPNZVB       27         AC3FAVL-AU-B       38       AC3FPP BULK       60       AC3MDPHL       58       AC3MPNZB-U       26       AC4MPV       27         AC3FB       10       AC3FPPH BULK       60       AC3MDPHL       62       AC3MPNZV       26       AC4MR       15         AC3FB BULK       10       AC3FPPH BULK       60       AC3MDPI BULK       62       AC3MPP BULK       60       AC5F       11         AC3FBH1-AU-B       40       AC3FPPI BULK       62       AC3MDPI BULK       62       AC3MPP BULK       60       AC5F       43         AC3FBH2-AU-B       40       AC3FPPI BULK       62       AC3MDPL       58       AC3MPPH BULK       60       AC5F       43         AC3FBH3-AU-B       40       AC3FPPI BULK       62       AC3MDPL       58       AC3MPPH BULK       60       AC5F       43         AC3FBH3-AU-B       40       AC3FPPI BULK       60       AC3MDPV BULK       58 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>AC3MPNZ-AU</td> <td>26</td> <td>AC4MPNZB-AU</td> <td>27</td>							AC3MPNZ-AU	26	AC4MPNZB-AU	27
AC3FAVL-AU-B       38       AC3FPPH       60       AC3MDPHL       58       AC3MPNZB-AU       26       AC4MPV       27         AC3FB       10       AC3FPPH BULK       60       AC3MDPHL BULK       58       AC3MPNZV       26       AC4MPVB       27         AC3FB BULK       10       AC3FPPHL BULK       60       AC3MDPH BULK       58       AC3MPNZVB       26       AC4MPVB       27         AC3FB H       10       AC3FPPHL BULK       60       AC3MDPH BULK       62       AC3MPPL       60       AC5F       11         AC3FBH1-AU-B       40       AC3FPPHL BULK       62       AC3MDPI BULK       62       AC3MPPH BULK       60       AC5F       11         AC3FBH2-AU-B       40       AC3FPPI BULK       62       AC3MDPI BULK       62       AC3MPPH BULK       60       AC5FAV-AU-B       43         AC3FBH3-AU-B       40       AC3FPPI BULK       62       AC3MDPV BULK       58       AC3MPPH BULK       60       AC5FB HL       11         AC3FBH3-AU-B       40       AC3FPPL BULK       60       AC3MDPV BULK       58       AC3MPPH BULK       60       AC3FPL BULK       61       AC3MDPV BULK       64       AC3FPL BULK       61       AC3FFD BULK		38	AC3FPP	60	AC3MDPH	58	AC3MPNZB	26	AC4MPNZV	27
AC3FB       10       AC3FPPH BULK       60       AC3MDPHL BULK       58       AC3MPNZV       26       AC4MPVB       27         AC3FB BULK       10       AC3FPPHL       60       AC3MDPI       62       AC3MPNZVB       26       AC4MPR       15         AC3FB BULK       10       AC3FPPHL BULK       60       AC3MDPI BULK       62       AC3MPP       60       AC5F       11         AC3FBH-AU-B       40       AC3FPPI       62       AC3MDPI BULK       62       AC3MPP BULK       60       AC5F BULK       11         AC3FBH3-AU-B       40       AC3FPPI BULK       62       AC3MDPI BULK       62       AC3MPPH BULK       60       AC5F-AU       11         AC3FBH3-AU-B       40       AC3FPPI BULK       62       AC3MDPL BULK       58       AC3MPPH BULK       60       AC5F-AU       11         AC3FBH3-AU-B       40       AC3FPPI BULK       60       AC3MDPV BULK       58       AC3MPPH BULK       60       AC3FPI BULK       60       AC3MDPV BULK       60       AC3MPPH BULK       60       AC3FFB BULK       11         AC3FBH3-AU-B       40       AC3FPPV BULK       60       AC3MDPV BULK       58       AC3MPPH BULK       62       AC5FB AU <t< td=""><td>AC3FAVL3-AU-B</td><td>38</td><td>AC3FPP BULK</td><td>60</td><td>AC3MDPH BULK</td><td>58</td><td>AC3MPNZB BULK</td><td>26</td><td>AC4MPNZVB</td><td>27</td></t<>	AC3FAVL3-AU-B	38	AC3FPP BULK	60	AC3MDPH BULK	58	AC3MPNZB BULK	26	AC4MPNZVB	27
AC3FB BULK       10       AC3FPPHL       60       AC3MDPI       62       AC3MPNZVB       26       AC4MR       15         AC3FB-AU       10       AC3FPPHL BULK       60       AC3MDPI BULK       62       AC3MPP       60       AC5F       11         AC3FBH1-AU-B       40       AC3FPPI       62       AC3MDPI BULK       62       AC3MPP BULK       60       AC5F       11         AC3FBH3-AU-B       40       AC3FPPI BULK       62       AC3MDPI BULK       62       AC3MPPH BULK       60       AC5F-AU       11         AC3FBH3-AU-B       40       AC3FPPI BULK       62       AC3MDPL BULK       58       AC3MPPH BULK       60       AC5FAV-AU-B       43         AC3FBH3-AU-B       40       AC3FPPI BULK       62       AC3MDPL BULK       58       AC3MPPH BULK       60       AC5FBH       11         AC3FBH3-AU-B       40       AC3FPPL BULK       60       AC3MDPV BULK       58       AC3MPPI BULK       62       AC5FB AU       11         AC3FBH3-AU-B       40       AC3FPPV BULK       60       AC3MDPV BULK       58       AC3MPPI BULK       62       AC5FB AU       11         AC3FBHB1-AU-B       41       AC3FPPV BULK       60       AC	AC3FAVL-AU-B	38	AC3FPPH	60	AC3MDPHL	58	AC3MPNZB-AU	26		
AC37B-AU       10       AC3FPPHL BULK       60       AC3MDPI BULK       62       AC3MPP       60       AC5F       11         AC37B-AU       40       AC3FPPI       62       AC3MDPI BULK       62       AC3MPP       60       AC5F       11         AC37B-AU-B       40       AC3FPPI BULK       62       AC3MDPIL       62       AC3MPPH       60       AC5F-AU       43         AC37B-AU-B       40       AC3FPPI BULK       62       AC3MDPL BULK       62       AC3MPPH       60       AC5F-AU       11         AC37B-AU-B       40       AC3FPPI BULK       62       AC3MDPL BULK       58       AC3MPPH BULK       60       AC5F-AU       11         AC37B-BHA-AU-B       40       AC3FPPL BULK       60       AC3MDPV       58       AC3MPPH BULK       60       AC5FB       11         AC37B-BHB-AU-B       40       AC3FPPV BULK       60       AC3MDPV       58       AC3MPPH BULK       62       AC5FB-AU       11         AC37B-BHB-AU-B       40       AC3FPPV BULK       60       AC3MDPV BULK       58       AC3MPPI BULK       62       AC5FB-AU       11         AC37BBHB-AU-B       40       AC3FPPV BULK       60       AC3MDZ       23	AC3FB	10		60						
AC3FBH1-AU-B       40       AC3FPPI       62       AC3MDPIL       62       AC3MPP BULK       60       AC5F BULK       11         AC3FBH2-AU-B       40       AC3FPPI BULK       62       AC3MDPIL       58       AC3MPPH       60       AC5F-AU-B       43         AC3FBH3-AU-B       40       AC3FPPIL       62       AC3MDPL       58       AC3MPPH BULK       60       AC5F-AU       11         AC3FBH3-AU-B       40       AC3FPPIL       60       AC3MPPL       58       AC3MPPH BULK       60       AC5F-AU-AU-B       43         AC3FBH3-AU-B       40       AC3FPPL       60       AC3MDPV       58       AC3MPPHL       60       AC5F-B       11         AC3FBHB1-AU-B       40       AC3FPPL       60       AC3MDPV BULK       58       AC3MPPI BULK       62       AC5FB       11         AC3FBHB3-AU-B       40       AC3FPPV BULK       60       AC3MDPV BULK       58       AC3MPPI BULK       62       AC5FB J       11         AC3FBHB3-AU-B       41       AC3FPPV BULK       60       AC3MDPV BULK       58       AC3MPPI BULK       62       AC5FDJ       24         AC3FBHB1-AU-B       41       AC3FPPV BULK       60       AC3MDZ										
AC3FBH2-AU-B       40       AC3FPPI BULK       62       AC3MDPIL BULK       62       AC3MPPH       60       AC5FAH-AU-B       41         AC3FBH3-AU-B       40       AC3FPPIL       62       AC3MDPL       58       AC3MPPH BULK       60       AC5FA-AU       11         AC3FBH-AU-B       40       AC3FPPIL       BULK       62       AC3MDPL       58       AC3MPPH BULK       60       AC5FAV-AU-B       43         AC3FBH3-AU-B       40       AC3FPPL       BULK       62       AC3MDPL       58       AC3MPPHL BULK       60       AC5FB       11         AC3FBHB2-AU-B       40       AC3FPPL BULK       60       AC3MDPV BULK       58       AC3MPPIL BULK       62       AC5FB JULK       11         AC3FBHB2-AU-B       40       AC3FPPV BULK       60       AC3MDPV BULK       58       AC3MPPIL BULK       62       AC5FB JULK       11         AC3FBHB-AU-B       40       AC3FPPV BULK       60       AC3MDPV BULK       58       AC3MPPIL BULK       62       AC5FDJ       24         AC3FBHB1-AU-B       41       AC3FPPV BULK       60       AC3MDZ       23       AC3MPPIL BULK       60       AC5FDZ       24         AC3FBHB1-AU-B       41										
AC37EBH3-AU-B       40       AC3FPPIL       62       AC3MDPL       58       AC3MPPH BULK       60       AC5F-AU       11         AC37EBH-AU-B       40       AC3FPPIL BULK       62       AC3MDPL BULK       58       AC3MPPH BULK       60       AC5FAV-AU-B       43         AC37EBHB1-AU-B       40       AC3FPPL       60       AC3MDPV       58       AC3MPPHL BULK       60       AC5FB       11         AC3FBHB2-AU-B       40       AC3FPPL BULK       60       AC3MDPV       58       AC3MPPHL BULK       60       AC5FB       11         AC3FBHB3-AU-B       40       AC3FPPV       60       AC3MDPV BULK       58       AC3MPPH BULK       62       AC5FB-AU       11         AC3FBHB3-AU-B       40       AC3FPPV BULK       60       AC3MDPVL       58       AC3MPPI BULK       62       AC5FB-AU       11         AC3FBHB1-AU-B       41       AC3FPPV BULK       60       AC3MDZ       23       AC3MPPI BULK       62       AC5FDZ       24         AC3FBHB1-AU-B       41       AC3FPZ       27       AC3MDZ       23       AC3MPPL BULK       60       AC5FDZ AU       24         AC3FBHL3-AU-B       41       AC3FPZ BULK       27       AC3MDZB										
AC3FBH-AU-B       40       AC3FPPIL BULK       62       AC3MDPL BULK       58       AC3MPPHL       60       AC3FPAL       60       AC3MDPV       58       AC3MPPHL BULK       60       AC3FBH       11         AC3FBHB2-AU-B       40       AC3FPPL       BULK       60       AC3MDPV       58       AC3MPPH BULK       60       AC3FB       11         AC3FBHB2-AU-B       40       AC3FPPL       BULK       60       AC3MDPV BULK       58       AC3MPPI BULK       60       AC3FB       11         AC3FBHB3-AU-B       40       AC3FPPV       BULK       60       AC3MDPV       58       AC3MPPI       62       AC5FB-AU       11         AC3FBHBA-U-B       40       AC3FPPV BULK       60       AC3MDPV       58       AC3MPPIL       62       AC5FB-AU       11         AC3FBHBA-AU-B       41       AC3FPPV BULK       60       AC3MDZ       23       AC3MPPIL       60       AC5FDZ       24         AC3FBHBL3-AU-B       41       AC3FPZ       27       AC3MDZAU       23       AC3MPPL BULK       60       AC5FDZ       24         AC3FBHBL-AU-B       41       AC3FPZ       27       AC3MDZB       23       AC3MPPV BULK       60       AC5FDZ										
AC3FBHB1-AU-B       40       AC3FPPL       60       AC3MDPV       58       AC3MPPHL BULK       60       AC5FB       11         AC3FBHB2-AU-B       40       AC3FPPL BULK       60       AC3MDPV BULK       58       AC3MPPHL BULK       62       AC5FB       11         AC3FBHB3-AU-B       40       AC3FPPV       60       AC3MDPVL       58       AC3MPPI BULK       62       AC5FB-AU       11         AC3FBHB-AU-B       40       AC3FPPV BULK       60       AC3MDPVL BULK       58       AC3MPPI BULK       62       AC5FB-AU       11         AC3FBHB-L-AU-B       40       AC3FPPV BULK       60       AC3MDPVL BULK       58       AC3MPPI BULK       62       AC5FBJ       11         AC3FBHBL2-AU-B       41       AC3FPPVL       60       AC3MDZ       23       AC3MPPL BULK       62       AC5FDZ       24         AC3FBHBL3-AU-B       41       AC3FPZ       27       AC3MDZ-AU       23       AC3MPPL BULK       60       AC5FDZ       24         AC3FBHL-AU-B       40       AC3FPZ BULK       27       AC3MDZB AU       23       AC3MPPV BULK       60       AC5FDZB       24         AC3FBHL-AU-B       41       AC3FPZB       27       AC3MDZB-A										
AC3FBHB2-AU-B       40       AC3FPPL BULK       60       AC3MDPV BULK       58       AC3MPPI       62       AC5FB BULK       11         AC3FBHB3-AU-B       40       AC3FPPV       60       AC3MDPVL       58       AC3MPPI BULK       62       AC5FB-AU       11         AC3FBHB-AU-B       40       AC3FPPV BULK       60       AC3MDPVL BULK       58       AC3MPPI BULK       62       AC5FB-AU       11         AC3FBHBL-AU-B       40       AC3FPPV BULK       60       AC3MDZ       23       AC3MPPIL       62       AC5FDZ       24         AC3FBHBL2-AU-B       41       AC3FPPVL BULK       60       AC3MDZ BULK       23       AC3MPPL       60       AC5FDZ BULK       24         AC3FBHBL3-AU-B       41       AC3FPZ       27       AC3MDZB BULK       23       AC3MPPL BULK       60       AC5FDZ BULK       24         AC3FBHBL-AU-B       40       AC3FPZ       27       AC3MDZB       23       AC3MPPL BULK       60       AC5FDZ BULK       24         AC3FBHL3-AU-B       41       AC3FPZ-AU       27       AC3MDZB       23       AC3MPPV BULK       60       AC5FDZB       24         AC3FBHL3-AU-B       41       AC3FPZB       27       AC3										
AC3FBHB3-AU-B       40       AC3FPPV       60       AC3MDPVL       58       AC3MPPI BULK       62       AC5FB-AU       11         AC3FBHB3-AU-B       40       AC3FPPV BULK       60       AC3MDPVL BULK       58       AC3MPPI BULK       62       AC5FBJ       11         AC3FBHB1-AU-B       41       AC3FPPV BULK       60       AC3MDZ       23       AC3MPPIL       60       AC5FDZ       24         AC3FBHB12-AU-B       41       AC3FPPVL BULK       60       AC3MDZ       23       AC3MPPL       60       AC5FDZ       24         AC3FBHB12-AU-B       41       AC3FPZ       27       AC3MDZ BULK       23       AC3MPPL       60       AC5FDZ BULK       24         AC3FBHB1-AU-B       40       AC3FPZ       27       AC3MDZB       23       AC3MPPV       60       AC5FDZ BULK       24         AC3FBHB1-AU-B       41       AC3FPZ BULK       27       AC3MDZB       23       AC3MPPV       60       AC5FDZ BULK       24         AC3FBHL-AU-B       41       AC3FPZ BULK       27       AC3MDZB AU       23       AC3MPPV BULK       60       AC5FDZ BULK       24         AC3FBHL3-AU-B       41       AC3FPZ BULK       27       AC3MDZ BULK										
AC3FBHB-AU-B       40       AC3FPPV BULK       60       AC3MDPVL BULK       58       AC3MPPIL       62       AC5FBJ       11         AC3FBHBL1-AU-B       41       AC3FPPVL       60       AC3MDZ       23       AC3MPPIL BULK       62       AC5FDZ       24         AC3FBHBL2-AU-B       41       AC3FPPVL BULK       60       AC3MDZ BULK       23       AC3MPPL BULK       60       AC5FDZ BULK       24         AC3FBHBL3-AU-B       41       AC3FPZ       27       AC3MDZ BULK       23       AC3MPPL BULK       60       AC5FDZ BULK       24         AC3FBHBL-AU-B       40       AC3FPZ BULK       27       AC3MDZB       23       AC3MPPL BULK       60       AC5FDZ BULK       24         AC3FBHL-AU-B       40       AC3FPZ BULK       27       AC3MDZB       23       AC3MPPV       60       AC5FDZB       24         AC3FBHL-AU-B       41       AC3FPZ-AU       27       AC3MDZB       23       AC3MPV BULK       60       AC5FDZB       24         AC3FBHL-AU-B       41       AC3FPZB       27       AC3MDZB       23       AC3MPV BULK       60       AC5FDZ BULK       24         AC3FBHL-AU-B       40       AC3FPZB BULK       27       AC3MDZ										
AC3FBHBL1-AU-B       41       AC3FPPVL       60       AC3MDZ       23       AC3MPPIL       62       AC5FDZ       24         AC3FBHBL2-AU-B       41       AC3FPPVL BULK       60       AC3MDZ BULK       23       AC3MPPL       60       AC5FDZ BULK       24         AC3FBHBL3-AU-B       41       AC3FPZ       27       AC3MDZ-AU       23       AC3MPPL BULK       60       AC5FDZ BULK       24         AC3FBHBL-AU-B       40       AC3FPZ BULK       27       AC3MDZB       23       AC3MPPL BULK       60       AC5FDZ-AU       24         AC3FBHBL-AU-B       40       AC3FPZ BULK       27       AC3MDZB       23       AC3MPPV BULK       60       AC5FDZB       24         AC3FBHL2-AU-B       41       AC3FPZ BULK       27       AC3MDZB       23       AC3MPPV BULK       60       AC5FDZB       24         AC3FBHL2-AU-B       41       AC3FPZB       27       AC3MDZB       23       AC3MPPV BULK       60       AC5FDZB       24         AC3FBHL2-AU-B       41       AC3FPZB       27       AC3MDZB       23       AC3MPPV BULK       60       AC5FDZB       24         AC3FBHL2-AU-B       41       AC3FPZB BULK       27       AC3MDZV										
AC3FBHBL2-AU-B       41       AC3FPPVL BULK       60       AC3MDZ BULK       23       AC3MPPL       60       AC5FDZ BULK       24         AC3FBHBL3-AU-B       41       AC3FPZ       27       AC3MDZ-AU       23       AC3MPPL BULK       60       AC5FDZ BULK       24         AC3FBHBL-AU-B       40       AC3FPZ BULK       27       AC3MDZB       23       AC3MPPL BULK       60       AC5FDZ BULK       24         AC3FBHL-AU-B       40       AC3FPZ BULK       27       AC3MDZB       23       AC3MPPV BULK       60       AC5FDZB       24         AC3FBHL2-AU-B       41       AC3FPZB       27       AC3MDZB AULX       23       AC3MPPV BULK       60       AC5FDZB BULK       24         AC3FBHL2-AU-B       41       AC3FPZB       27       AC3MDZB-AU       23       AC3MPPV BULK       60       AC5FDZB-AU       24         AC3FBHL3-AU-B       41       AC3FPZB       27       AC3MDZV       23       AC3MPVL       60       AC5FDZ BULK       24         AC3FBJ       40       AC3FPZB-AU       27       AC3MDZV       23       AC3MPV       27       AC5FDZ V       24         AC3FBJ       10       AC3FPZB-AU       27       AC3MDZV										
AC3FBHBL3-AU-B       41       AC3FPZ       27       AC3MDZ-AU       23       AC3MPPL BULK       60       AC5FDZ-AU       24         AC3FBHBL-AU-B       40       AC3FPZ BULK       27       AC3MDZB       23       AC3MPPL BULK       60       AC5FDZB       24         AC3FBHL-AU-B       41       AC3FPZ-AU       27       AC3MDZB       23       AC3MPPV BULK       60       AC5FDZB       24         AC3FBHL2-AU-B       41       AC3FPZB       27       AC3MDZB BULK       23       AC3MPPV BULK       60       AC5FDZB BULK       24         AC3FBHL3-AU-B       41       AC3FPZB       27       AC3MDZB AU       23       AC3MPPV BULK       60       AC5FDZB-AU       24         AC3FBHL3-AU-B       41       AC3FPZB BULK       27       AC3MDZV       23       AC3MPPVL       60       AC5FDZV       24         AC3FBJL-AU-B       40       AC3FPZB-AU       27       AC3MDZV       23       AC3MPVL       27       AC5FDZV       24         AC3FBJ       10       AC3FPZV       27       AC3MDZVB       23       AC3MPV       27       AC5FDZVB       24         AC3FBJ       10       AC3FPZV       27       AC3MIDZVB       23 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>										
AC3FBHBL-AU-B         40         AC3FPZ BULK         27         AC3MDZB         23         AC3MPPV         60         AC5FDZB         24           AC3FBHL-AU-B         41         AC3FPZ-AU         27         AC3MDZB BULK         23         AC3MPPV BULK         60         AC5FDZB         24           AC3FBHL-AU-B         41         AC3FPZB         27         AC3MDZB AU         23         AC3MPPV BULK         60         AC5FDZB BULK         24           AC3FBHL-AU-B         41         AC3FPZB         27         AC3MDZB-AU         23         AC3MPPVL         60         AC5FDZB-AU         24           AC3FBHL-AU-B         41         AC3FPZB-BULK         27         AC3MDZV         23         AC3MPPVL BULK         60         AC5FDZB-AU         24           AC3FBHL-AU-B         40         AC3FPZB-AU         27         AC3MDZV         23         AC3MPVL BULK         60         AC5FDZV         24           AC3FBJ         10         AC3FPZV         27         AC3MIZVB         23         AC3MPV         27         AC5FDZVB         24           AC3FBJ         10         AC3FPZV         27         AC3MI         16         AC3MPVB         27         AC5FJ         11										
AC3FBHL1-AU-B         41         AC3FPZ-AU         27         AC3MDZB BULK         23         AC3MPPV BULK         60         AC5FDZB BULK         24           AC3FBHL2-AU-B         41         AC3FPZB         27         AC3MDZB-AU         23         AC3MPPV BULK         60         AC5FDZB BULK         24           AC3FBHL3-AU-B         41         AC3FPZB BULK         27         AC3MDZV         23         AC3MPPVL         60         AC5FDZB-AU         24           AC3FBHL-AU-B         40         AC3FPZB BULK         27         AC3MDZV         23         AC3MPVL BULK         60         AC5FDZV         24           AC3FBHL-AU-B         40         AC3FPZB-AU         27         AC3MDZVB         23         AC3MPVL BULK         60         AC5FDZV         24           AC3FBJ         10         AC3FPZV         27         AC3MI         16         AC3MPVB         27         AC5FDZ         11           AC3FBV1-AU-B         41         AC3FPZVB         27         AC3MI BULK         16         AC4F         11         AC5FPZ         28           AC3FBV2-AU-B         41         AC3FR         15         AC3MIB         16         AC4F-AU         11         AC5FPZ-AU         28										
AC3FBHL2-AU-B         41         AC3FPZB         27         AC3MDZB-AU         23         AC3MPPVL         60         AC5FDZB-AU         24           AC3FBHL3-AU-B         41         AC3FPZB BULK         27         AC3MDZV         23         AC3MPPVL BULK         60         AC5FDZB-AU         24           AC3FBHL-AU-B         40         AC3FPZB-AU         27         AC3MDZV         23         AC3MPVL         60         AC5FDZV         24           AC3FBHL-AU-B         40         AC3FPZB-AU         27         AC3MDZVB         23         AC3MPVL         27         AC5FDZV         24           AC3FBJ         10         AC3FPZV         27         AC3MI         16         AC3MPVB         27         AC5FJZ         11           AC3FBV1-AU-B         41         AC3FPZVB         27         AC3MI BULK         16         AC4F         11         AC5FPZ         28           AC3FBV2-AU-B         41         AC3FR         15         AC3MIB         16         AC4F BULK         11         AC5FPZ AU         28           AC3FBV3-AU-B         41         AC3M         10         AC3MIB         16         AC4F-AU         11         AC5FPZ-AU         28										
AC3FBHL3-AU-B         41         AC3FPZB BULK         27         AC3MDZV         23         AC3MPPVL BULK         60         AC5FDZV         24           AC3FBHL-AU-B         40         AC3FPZB-AU         27         AC3MDZVB         23         AC3MPVL BULK         60         AC5FDZVB         24           AC3FBJL-AU-B         40         AC3FPZB-AU         27         AC3MDZVB         23         AC3MPV         27         AC5FDZVB         24           AC3FBJ         10         AC3FPZV         27         AC3MI         16         AC3MPVB         27         AC5FJ         11           AC3FBV1-AU-B         41         AC3FPZVB         27         AC3MI BULK         16         AC4F         11         AC5FPZ         28           AC3FBV2-AU-B         41         AC3FR         15         AC3MI-AU         16         AC4F BULK         11         AC5FPZ BULK         28           AC3FBV3-AU-B         41         AC3M         10         AC3MIB         16         AC4F-AU         11         AC5FPZ-AU         28										
AC3FBHL-AU-B         40         AC3FPZB-AU         27         AC3MDZVB         23         AC3MPV         27         AC5FDZVB         24           AC3FBJ         10         AC3FPZV         27         AC3MI         16         AC3MPVB         27         AC5FJ         11           AC3FBV1-AU-B         41         AC3FPZVB         27         AC3MI BULK         16         AC4F         11         AC5FPZ         28           AC3FBV2-AU-B         41         AC3FR         15         AC3MIB         16         AC4F BULK         11         AC5FPZ BULK         28           AC3FBV3-AU-B         41         AC3M         10         AC3MIB         16         AC4F-AU         11         AC5FPZ-AU         28									AC5FDZV	
AC3FBJ         10         AC3FPZV         27         AC3MI         16         AC3MPVB         27         AC5FJ         11           AC3FBV1-AU-B         41         AC3FPZVB         27         AC3MI BULK         16         AC4F         11         AC5FPZ         28           AC3FBV2-AU-B         41         AC3FR         15         AC3MI-AU         16         AC4F BULK         11         AC5FPZ BULK         28           AC3FBV3-AU-B         41         AC3M         10         AC3MIB         16         AC4F-AU         11         AC5FPZ-AU         28				27	AC3MDZVB	23	AC3MPV	27	AC5FDZVB	24
AC3FBV2-AU-B 41 AC3FR 15 AC3MI-AU 16 AC4F BULK 11 AC5FPZ BULK 28 AC3FBV3-AU-B 41 AC3M 10 AC3MIB 16 AC4F-AU 11 AC5FPZ-AU 28	AC3FBJ	10	AC3FPZV		AC3MI					
AC3FBV3-AU-B 41 AC3M 10 AC3MIB 16 AC4F-AU 11 AC5FPZ-AU 28	AC3FBV1-AU-B	41								
AC3FBV-AU-B 41 AC3M BULK 10 AC3MIB BULK 16 AC4FB 11 AC5FPZB 28										
	AC3FBA-AD-B	41	AU3IM BULK	10	AC3MIB BULK	16	AU4FB	11	AUOLAR	28

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ACCEPT2D BLIK         2         ACCEMUND TO         55         ACLIMANES         101         ACLEPRES 1         105           ACSTP2DA         2         ACCEMUND TO         55         ACLEMANES 2         105         ACLEPRES 1         105           ACSTP2DA         2         ACCEMUND TO         55         ACLEMANES 2         105         ACLEMANES 2         106         AC	Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page
ACSET?20.4.0         28         ACEMATOR BULK         29         ACEMATOR         85         ACEMATOR         105         ACEMPRES         105           ACSET?V         28         ACEMATOR         25         ACEMATOR         85         ACEMATOR         105         ACEMPRES         105         ACEMATOR         106         ACEMATOR         10		-		-	AC-BNC20MP75	-	AC IM-MHS	-	AC.IS-PVR-3	-
ACSERVU         28         ALD ALMACES         105         ALSE PrueS										
ACSFR/DB         28         ACEM/ADV         25         ACE/ADVADE         25         ACEM/ADVADE         25         ACEM/ADVADE         26         ACM/TEAL         80           ACSMR         11         ACEM/ADVAD         25         ACEM/ADVAD         25         ACEM/ADVAD         26         ACM/TEAL         80           ACSMR         11         ACEM/ADVAD         25         ACEM/ADVAD         25         ACEM/ADVAD         26         ACM/TEAL         80           ACSMAL         11         ACEM/ADVAD         29         ACEM/ADVAD         25         ACEM/ADVAD         26         ACM/TAVAD         81         ACEM/ADVAD										
ACSM         11         ACRAUL         12         ACARCABULY         B5         ACAMPATORS-25         102         AC-MUT-GRN         80           ACSM BULK         77         ACBAR/PULK         23         AC-BUCABUTS         B5         ACAMPATORS-25         102         AC-MUT-GRN         80           ACSMANN         77         ACBAR/PULK         23         AC-BUCABUTS         B5         ACAMPATORS-25         102         AC-MUT-BULK         81           ACSMANA/HUB         11         ACBAR/PULK         23         AC-BUCAL/J-75         B4         ACAMPATORS-2         102         AC-MUT-FABLK         B1           ACSMAN         11         ACBAR/PULK         23         AC-BUC-LJ-75         B4         ACAMPATORS-2         102         AC-MUT-FABLK         B1           ACSMB AUL         11         ACBAR/PULK         23         AC-BUC-LJ-75         B4         ACAMPATOR         B1         ACAMPA								102		80
ACEM BULK         11         ACEM ALP         29         ALP ANCAREPTS         85         ALP ANCARESTS         102         ALP ANT-FAIL         81           ACSMMAY         40         ACSMAY-AU         20         ALP ANCARENTS         85         ALP ANT-FAIL         81           ACSMAYAL         10         ACSMAY-AU         20         ALP ANCARENTS         85         ALP ANT-FAIL         81           ACSMAYAL         10         ACSMAYAL         20         ALP ANCARENTS         85         ALP ANT-FAIL         81           ACSMAY         11         ACSMAYAL         20         ALP ANCL-JYSE         84         ALP ANT-FAIL         80           ACSMAY         11         ACSMAYAL         20         ALP ANCL-JYSE         84         ALP ANT-FAIL         80           ACSMAY         11         ACSMAYAL         23         ALP ANCL-JYSE         84         ALP ANT-FAIL         80         ALP ANT-FA	AC5FR	15	AC6AMDZVB	25	AC-BNC40B	85	ACJM-MV35-2S		AC-NUT-BRN	
ACESSANDAL         TP         ACESANDAL         SE         ACLAMANS2         106         ACAUT-BLK         B1           ACESMALAU         11         ACESMALAU         12         ACEMALAUSE         55         ACLAMANS2         106         ACAUT-BLK         81           ACESMALAU         11         ACESMALAU         11         ACESMALAU         51         ACLAMANS2         102         ACAUT-BLK         81           ACESMALAU         11         ACESMALAU         11         ACESMALAU         82         ACEMALAUS         81         ACAUNAUS         102         ACAUT-AUK         80           ACSMB SULK         11         ACESMALAU         22         ACEMALAUS         81         ACAUNAUS         80         ACAUNAUS         80 <td>AC5M</td> <td>11</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	AC5M	11								
ACSMAPL         3         ACSMAPL         20         ACSMAPL         85         ACLM MKS-25         100         AC-NUT METAL         81           ACSMAPL         43         ACBMAPB         24         ACBMAPS         84         ACLM MKS-25         102         AC-NUT METAL         81           ACSMAPL         11         ACBMAPB         ACBMAPS         84         ACLM MKS-25         102         AC-NUT METAL         80           ACSMAPL         11         ACBMAPB         ACBMAPS         ACBMAPS         84         ACLM MKS-25         102         AC-NUT METAL         80           ACSMAPL         11         ACBMAPS         ACBMAPS         84         ACLM MHDP         103         ACPMAPS         80           ACSMAPL         42         ACBMAPS         21         ACBMAPS         84         ACLM HHDP         103         ACPMAPS         80           ACSMAPL         21         ACBMAPS         84         ACLM HHDP         103         ACPMAPS         80										
ACSBAR         Ti         ACSBAR										
ACSMAR         43         ACEMPF BULK         29         ACEMICS         94         ACLM MYSS-2         102         AC-NUT-RED         80           ACSMB BULK         11         ACEMMPF JULK         28         ACEMICS, JA758         64         ACLM MYSS-2         ID2         AC-NUT-RED         80           ACSMB JULK         11         ACEMMPF JULK         28         ACEMICS, JA758         64         ACLM MYSS-2         AC-NUT-RED         80           ACSMB JULK         11         ACEMMPF JULK         28         ACEMICS, JA758         64         ACLM MYSS-2         AC-NUT-RED         80           ACSMUZ         24         ACEMMPF JULK         28         ACEMICS-JA758         64         ACLM MYSS-2         ACEMPF JULK         98           ACSMUZ         24         ACEMMPK JULK         29         ACEROMMET-RULK         80         ACLM MYSS-2         105         ACPM-GH JULK         98           ACSMUZ         24         ACEMMPK JULK         28         ACEROMMET-RULK         80         ACLM MYSS-2         105         ACPM-GH JULK         98           ACSMUZ         24         ACEROMMET-RULK         80         ACLM MYSS-2         105         ACPM-GH JULK         98           ACSMUZ <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
ACSMB         11         ACSMPT2         29         AC-BINUL/SIG         44         ACLM-MOS-25         102         AC-NUT-VID         80           ACSMB BULK         11         ACSMPT2         AC-BINUL/LATS         64         ACLM-PH         103         ACPMIC-14/WTF         80           ACSMB JULK         22         AC-BINUL/LATS         64         ACLM-PHD         103         ACPMIC-16/B         81           ACSMB JULK         22         AC-BINUL-17/S         81         ACLM-PHD         103         ACPMIC-16/B         81           ACSMB JULK         24         ACBMICPL-17/S         81         ACLM-PHDD         103         ACPMIC-16/B         81           ACSMICZ         42         ACSMICZ-16/LATS         81         ACLM-PHD-16         114         ACPMIC-16/B         81           ACSMICZ-10/LATS         42         ACSMICZ-16/LATS         81         ACLM-PHD-25         105         ACPMIC-16/B         81           ACSMICZ-11/LATS         42         ACSMICZ-16/LATS         80         ACLM-PHD-25         105         ACPMIC-16/B         81         ACLM-PHD-25         105         ACPMIC-16/B         81         ACLM-PHD-16         114         ACPMIC-16/B         81         ACSMICZ-16/B         ACLM-PHD-16<										
ACSMB BULK         11         ACSMMP2         23         AC-BMC-LUR-75         84         ACAM-PC         101         AC-NUT-WHT         80           ACSMB-JU         11         ACGAMPEZ JULK         29         AC-BMC-S575         84         ACAM-PHON         103         ACPM-GB         BB           ACSMUZ         24         ACSMMP2A         28         AC-BMC-S758         84         ACAM-PHON         103         ACPM-GB         BB           ACSMUZ         24         ACSMMP2A         ACBMC-ST758         84         ACAM-PHA         104         ACPM-GB         BB           ACSMUZ         24         ACSMMPAR         29         AC-GROMMET-RELUL         80         ACAM-PHS         104         ACPM-GB         BB           ACSMUZB         24         ACGAMPA         29         AC-GROMMET-GRN         80         ACAM-PHS-2         105         ACPM-GB         BB           ACSMUZV         24         ACGAMPA         29         AC-GROMMET-GRN         80         ACAR-RU         113         ACPM-GB         BB           ACSMUZV         24         ACGAMPR         29         AC-GROMMET-GRN         80         ACAR-RU         113         ACPM-RN         BB         ACSMPARAU         BB <td></td>										
ACSMB-AU         11         ACEMMINZ-AU         29         AC-BINC-SI-75B         64         ACAM-PHIC         103         AC-PMT-GB         98           ACSMB2         24         ACEMANYZA         29         ACEMAC-SI-75B         84         ACAM-PHOP         103         ACPMA-GB-ULK         89           ACSMD2         24         ACEMANYZB         21         ACEMAC-PL75B         84         ACAM-PHOP         103         ACPMA-GB-ULK         89           ACSMD2         214         ACEMANYZB         22         ACE-REDMATETARU         84         ACAM-PHOP         103         ACPMA-GB-ULK         89           ACSMD2         24         ACEAMANYDB         29         ACEGROMMET-GRN         80         ACAM-PHO-22         105         ACPMA-GB-ULK         89           ACSMD2         24         ACEAMANYDB         29         ACEGROMMET-GRN         80         ACAM-PHO-22         105         ACPMA-GB-ULK         98           ACSMD2         24         ACEAMANYDB         29         ACEGROMMET-GRN         80         ACAM-FB-ULK         13         ACPMA-GB-ULK         98           ACSMD2         24         ACEAMANYDB         24         ACEAMANYDB         ACEAMANYDB         ACEAMANYDB         99										
CSM072         2         ACCMMPR2 ILLX         29         ACEBNC PL/S         64         ACM-PHOP         103         ACPM-GB ULK         98           ACSM072 JULX         24         ACEMMPR3 JULX         29         ACEBNC PL/S         84         ACAMPRE TI         103         ACPM-GB ULK         98           ACSM072 JULX         24         ACEMMPR3 JULX         29         ACEBNC PL/S         84         ACAMPRIS         104         ACPM-GB ULK         98           ACSM072 JULX         24         ACEMMPR3 JULX         29         ACEBNC MMET-FARIN         80         ACLM-PPI2-2         105         ACPM-KIN ULX         98           ACSM072 JULX         24         ACEMARY         29         ACEGNUMET-FARIN         80         ACLM-PRIZ-25         105         ACPM-KIN ULX         98           ACSMP SULX         24         ACEMARY         29         ACEGNUMET-FARIN         80         ACLR-REIN         113         ACPM-KIN ULX         98           ACSMP SULX         24         ACERMWARY         29         ACEGNUMET-FARIN         80         ACAR-REIN         113         ACPM-KIN ULX         98           ACSMP SULX         28         ACTFB         12         ACEGNUMET-FARIN         80         ACAR-REIN				29			ACJM-PH	103	AC-NUT-YEL	80
ACSMUZ         24         ACSAMPIZE         29         ACBMIC PLATS         64         ACM-PHOP-1         103         ACPM-GB-AU         98           ACSMUZB         24         ACSAMPIZB-AU         29         ACBMIC PLATS         4         ACAMPEN         144         ACM-NEN         98           ACSMUZB         24         ACSAMPIZVB         29         ACBROWMET-LAU         80         ACLM-PHIS         104         ACPM-GB-AU         98           ACSMUZB         24         ACSAMPIZVB         29         ACBROWMET-LAU         80         ACLM-PHIS         104         ACPM-GB-AU         98           ACSMUZP         24         ACSAMPIZVB         29         ACBROWMET-LAU         80         ACLM-PHOS         ACBROWMET-LAU         80         ACLM-PHOS         ACBROWMET-LAU         80         ACLM-PHOS         ACBROWMET-LAU         80         ACLM-PHOS         ACBROWMET-LAU         80         ACLM-REN         113         ACPM-NN LUK         98         ACSMP         28         ACFR BULK         29         ACCITON BURK         53         ACLR-REN         113         ACPM-NN LUK         98           ACSMPP DULK         28         ACFR BULK         29         ACCITON BURK         53         ACLR-REN         113	AC5MBJ	11			AC-BNC-JS-75B					
ACSM022         24         ACSM023         24 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
ACSMUZB         2         ACGROMMET-GRN         80         ACGMUZB         104         ACPM-GN BULK         98           ACSMUZB         ACGROMMET-GRN         80         ACGMUZB         105         ACPM-GN BULK         98           ACSMUZB         ACGROMMET-GRN         80         ACGMUZB         113         ACPM-GN BULK         98           ACSMUZY         24         ACGRAMPYD         29         ACGROMMET-GRN         80         ACGR-GNMET-GRN         113         ACPM-KRB         96           ACSMUZY         24         ACGRAMPIX         12         ACGROMMET-GRG         80         ACGR-GNN         113         ACPM-KRB         96           ACSMUZ         24         ACGROMMET-MOLT         80         ACGR-GNN         113         ACPM-KRB         98           ACSMPR         28         ACTFD BULK         12         ACGROMMET-MOLT         80         ACGR-SNE         113         ACPM-KRB         99           ACSMPR         28         ACTFD BULK         25         ACGR-SNE         113         ACPM-KRB         99           ACSMPR BULK         28         ACTFD BULK         25         ACGR-SNE         113         ACPM-KRB         99           ACSMPR BULK         28										
ACSM072         24         ACSAMPY         29         AC-GROMMET-GRN         80         ACIM-PH-2:         105         ACPM-KB         96           ACSM072         24         ACSAMPY         29         AC-GROMMET-GRY         80         ACIR-BLU         113         ACPM-KB         96           ACSM072         24         ACSAMPY         29         AC-GROMMET-GRY         80         ACIR-BLU         113         ACPM-KB BULK         96           ACSM1         1         AC7F         12         AC-GROMMET-GRY         80         ACIR-GRN         113         ACPM-KN         96           ACSM2         28         AC7FB         12         AC-GROMMET-MED         80         ACIR-GRN         113         ACPM-KN         98           ACSMP JULK         28         ACTFB         12         AC-GROMMET-WHT         80         ACIR-GRN         113         ACPM-KN         98           ACSMP JULK         28         ACTFB         12         AC-GROMMET-WHT         80         ACIR-GRN         113         ACPM-KN         98           ACSMP JULK         28         ACTFD         25         ACIDTON BULK         53         ACIR-WHT         113         ACPM-FN         99           A										
ACSM02         24         ACGAMPY         29         AC-GROMMET-GRN         80         ACCM-PP-25         105         ACPM-K8         96           ACSM02V         24         ACGAMPY         29         AC-GROMMET-ARP         80         ACJR-BLK         113         ACPM-K8         96           ACSM02V         24         ACGAMPY         11         AC-FR         12         AC-GROMMET-ARP         80         ACJR-BLK         113         ACPM-K8         96           ACSMP         28         AC7F         12         AC-GROMMET-V0         80         ACJR-GRN         113         ACPM-K8         96           ACSMP         28         AC7FB         12         AC-GROMMET-VEL         80         ACJR-GRN         113         ACPM-K8         98           ACSMPAU         28         AC7FD2         25         ACJC10H_BULK         53         ACJR-SRL         113         ACPM-R8         99           ACSMP2U         28         ACTFD2         25         ACJC10H_BULK         53         ACJR-SRL         113         ACPM-R8         99           ACSMPAU         28         ACJFD2         25         ACJC10H_BULK         53         ACJR-SRL         113         ACPM-R8         99										
CÓSIDUZ         24         CÓSIDUZ         29         AC-GROMMET-CREY         80         ACJR-BLK         113         ACPM-KB BULK         96           ACSMUZ         ACA         ACA         ACA         BONMET-CREY         80         ACJR-GRN         113         ACPM-KB BULK         96           ACSMP         28         AC7F BULK         12         AC-GROMMET-VRED         80         ACJR-GRN         113         ACPM-KN BULK         96           ACSMP BULK         28         AC7FB BULK         12         AC-GROMMET-VM-HT         80         ACJR-GRN         113         ACPM-KN BULK         98           ACSMPB         28         AC7FB BULK         25         ACJC10H BULK         53         ALF-SBL         113         ACPM-KN BULK         99           ACSMPB         28         ACTFB ULK         25         ACJC10H BULK         53         ALF-SBL         113         ACPM-KN BULK         99           ACSMPRDU         28         ACTFD BULK         25         ACJC10H BULK         53         ALF-SBL         113         ACPM-KN BULK         99           ACSMPRAJU         28         ACTFD BULK         25         ACJC10H BULK         53         ACJR-SNUT         113         ACPM-KN BULK										
ACSMU2VB         24         ACGAMR         15         AC-GROMMET-ORG         80         ACJR-BLU         113         ACPM-KP-AU         95           ACSMP         28         AC7F BULK         12         AC-GROMMET-WIO         80         ACJR-GRN         113         ACPM-KN BULK         96           ACSMP         28         AC7F BULK         12         AC-GROMMET-WID         80         ACJR-RED         113         ACPM-KN-AU         96           ACSMP         28         AC7F BULK         12         AC-GROMMET-WEL         80         ACJR-SBL         113         ACPM-RB BULK         99           ACSMPB BULK         28         AC7FD2         C5         ACJC1CHBULK         53         ACJR-SBL         113         ACPM-RB BULK         99           ACSMPA         28         AC7FD2         C113         C114         C114         ACPM-RB         91           ACSMPA         28         AC7FD2         C2         ACJC1CHBULK         53         ACJR-SH         113         ACPM-RB         92           ACSMPA2DULK         28         AC7FD2         CAUCHSBULK         51         ACJR-HD         103         ACPM-TB         92         ACSMPA2DULK         92         ACSMPA1DULK         92										
ACSMP         28         AC7FBULK         12         ACGROMBULY         80         ACLP-GRN         113         ACPM-KN BULK         28           ACSMP BULK         28         AC7FB         12         ACGROMMET-YEL         80         ACLP-SBK         113         ACPM-RB         99           ACSMP BULK         28         AC7FB         12         ACCIONBULK         53         ACLP-SBK         113         ACPM-RB AUK         99           ACSMPB BULK         28         AC7FD2         12         ACCIONBULK         53         ACLP-SVL         113         ACPM-RB-AUK         99           ACSMPR JULK         28         AC7FD2B         12         ACCIONS BULK         54         ACLP-SVL         113         ACPM-RN BULK         99           ACSMPR2ULK         28         AC7FD2B         113         ACPM-RN BULK         91         ACSMPR2ULK         28         AC7FD2D         25         ACLCIVIN BULK         53         ACLP-VHT         113         ACPM-RT BULK         97           ACSMPR2UK2         28         AC7FP2         20         ACCISS BULK         51         ACLS-HHD         104         ACPM-TT BULK         97           ACSMPR2UK2         28         AC7FP2         20	AC5MDZVB		AC6AMR	15	AC-GROMMET-ORG	80	ACJR-BLU	113	ACPM-KB-AU	96
ACSMPRAUK         28         ACTPE         12         ACGROMET.vwFT         80         ACJR-RED         113         ACPM-KN-AU         96           ACSMPA         28         ACTPB DULK         12         ACGROMET.VWFT         80         ACJR-SBL         113         ACPM-RB         99           ACSMPB         28         ACTPD2         25         ACJC10H. BULK         53         ACJR-SBL         113         ACPM-RB         99           ACSMPB-AU         28         ACTPD2         25         ACJC10S. BULK         54         ACJR-SVL         113         ACPM-RN         99           ACSMPRJUE         28         ACTPD2         25         ACJC10S. BULK         53         ACJR-VFL         113         ACPM-RN         99           ACSMPRZ         28         ACTPD2         25         ACJC10V. BULK         53         ACJR-VFL         113         ACPM-RN-BULK         99           ACSMPRZ         28         ACTPD2         25         ACJC10V. BULK         53         ACJR-VFL         113         ACPM-RN-BULK         97           ACSMPRZ         28         ACTP2         30         ACJCSN BULK         51         ACJS-HHD         104         ACPM-TN AU         97										
LÖSMM-AU         28         AC7FE BULK         12         ACCICHT BULK         53         ACAR-SBL         113         ACPM-RB         99           ACSMPB         28         AC7FD2         25         ACCICHT BULK         53         ACAR-SBL         113         ACPM-RB BULK         99           ACSMPB-BULK         28         AC7FD2         25         ACCICHT BULK         54         ACAR-SWH         113         ACPM-RB         99           ACSMPR-VAL         28         AC7FD2 BULK         25         ACCICHTS BULK         54         ACAR-SWH         113         ACPM-RN BULK         99           ACSMPNZ-AU         28         AC7FD2 BULK         25         ACCICHTV BULK         53         ACAR-WHT         113         ACPM-RN AU         99           ACSMPNZ-BULK         28         AC7FD2         112         ACICSH BULK         51         ACIS-HHOP-1         103         ACPM-TB         97           ACSMPNZB         28         AC7FP2         30         ACICSS BULK         51         ACIS-HHOP-1         103         ACPM-TN         97           ACSMPNZP         28         AC7FP2 BULK         30         ACICSS BULK         51         ACIS-MH         104         ACPM-TN         113										
LÖSMPB         28         ACTFD1         12         ACLCIONE BULK         53         ACLR-SRD         113         ACPM-RB BULK         99           ACSMPB BULK         28         ACTFD2 BULK         25         ACCIONE BULK         53         ACLR-SRD         113         ACPM-RR-AU         99           ACSMPD 20LK         28         ACTFD2 BULK         25         ACCIONE BULK         54         ACLR-SVH         113         ACPM-RR-BULK         99           ACSMPN2 BULK         28         ACTFD2 BULK         25         ACCIONE BULK         53         ACLR-VEL         113         ACPM-RN BULK         99           ACSMPN2 BULK         28         ACTFD2V         25         ACCIONE BULK         51         ACLR-VEL         113         ACPM-TB         97           ACSMPN2B-UL         28         ACTFD2         30         ACLCSSL BULK         51         ACLS-HHOP         103         ACPM-TB         97           ACSMPN2B-UL         28         ACTFP2 BULK         30         ACLCSSL BULK         51         ACLS-HHOP         103         ACPM-TB         4CPM-TB         97           ACSMPN2B-UL         28         ACTFP2 BULK         30         ACLCSSL BULK         51         ACLS-HHOP         103 <td></td>										
ACCMPRE BULK         28         ACCPTO2         25         ACCICION BULK         53         ACAR-SRD         113         ACPMARA         99           ACSMMPL         28         ACPTO2 BULK         25         ACCICIOS BULK         54         ACAR-SWH         113         ACPMARN         99           ACSMMPLZ         28         ACPTO2B         25         ACCICION BULK         53         ACAR-SWH         113         ACPMARNAL         99           ACSMMPLZ         28         ACPTO2W         25         ACCICION BULK         53         ACAR-VHT         113         ACPMARNAL         99           ACSMMPLZ         28         ACPTO2W         25         ACCICION BULK         53         ACAR-VHT         113         ACPMATB         97           ACSMMPLZ         28         ACPTO2         30         ACICION BULK         51         ACIS-HHOP-1         103         ACPMATD         97           ACSMMPLZ         28         ACPTP2 BULK         30         ACICION BULK         51         ACIS-HHOP-1         103         ACPMATD         97           ACSMMPLZ         28         ACPTP2 BULK         30         ACICION BULK         52         ACIS-HHOP-1         104         ACPMARN         113     <										
LÖSMP-AU         28         ACTPIZD         BUK         25         ACL         FOR         ACLR-SVH         113         ACPM-RN         99           ACSMPNZ         28         ACTPIZD         BULK         25         ACL         TOTO BULK         53         ACJR-SVH         113         ACPM-RN BULK         99           ACSMPNZ-AU         28         ACTPIZV         25         ACLCIVU BULK         51         ACJR-SVHTT         113         ACPM-TB         97           ACSMPNZB-AU         28         ACTPIZV         25         ACLGISH BULK         51         ACJS-HHOP         103         ACPM-TB         97           ACSMPNZB-AU         28         ACTPIZ         30         ACLCISS BULK         51         ACJS-HHOP         103         ACPM-TB         97           ACSMPNZB-AU         28         ACTPIZB         30         ACLCISS BULK         51         ACJS-HHOP-1         103         ACPM-TB         97           ACSMPNZB-AU         28         ACTPIZB         30         ACLCISS BULK         51         ACJS-HHOP-1         104         ACPM-TB         113           ACSMPNZB-AU         28         ACTPIZB         30         ACLGESH BULK         52         ACJS-HMHOP         104 <td></td>										
Cósmiku         28         ACTRD2         25         ACLOSE NULK         54         ACLES NUL         113         ACPM-RN-BULK         99           ACSMINZ AUL         28         ACTRD20         25         ACLOTIVA BULK         53         ACLES NULL         113         ACPM-RN-AU         99           ACSMINZA BULK         28         ACTRD20         25         ACLOSH BULK         51         ACLES HURK         51         ACLES HURK         97           ACSMINZB BULK         28         ACTRD2         80         ACLES BULK         51         ACLES HURD         103         ACPM-TB BULK         97           ACSMINZD         28         ACTRP2 BULK         30         ACLESS BULK         51         ACLES HURD         103         ACPM-TN AU         97           ACSMINZD         28         ACTRP2 BULK         30         ACLESS BULK         51         ACLES HURD         104         ACPM-TN AU         97           ACSMINZD         28         ACTRP2 BULK         30         ACLESS BULK         51         ACLES HURDES         102         ACPR-REIK         113           ACSMINZD         28         ACTRP2 BULK         30         ACLESE BULK         52         ACLESHURDES         102         ACLESHURDE										
ACSMPN2 BULK         28         AC/FD2         25         ACLC VU BULK         53         ACJR-WTH         113         ACPM-TB         97           ACSMPN2A         28         AC/FD2         25         ACLG VU BULK         51         ACJR-YFL         113         ACPM-TB         97           ACSMPN2B         28         AC/FD2         30         ACLCSH BULK         51         ACJS-HHOP         103         ACPM-TB         97           ACSMPN2B         28         AC/FP2         30         ACLCSS BULK         51         ACJS-HHOP-1         103         ACPM-TN         97           ACSMPN2D         28         AC/FP2B         30         ACLCSS BULK         51         ACJS-HHOP-1         104         ACPM-TN AULK         97           ACSMPN2         28         AC/FP2B         30         ACLCSV BULK         51         ACJS-MHOP-1         105         ACPM-TN AULK         97           ACSMPN2         28         AC/FP2B         30         ACLCSM BULK         52         ACJS-MHOP-1         105         ACPR-BLU         113           ACSAF         12         AC/FR         114         AC/FR         113         ACGAF         ACJS-MHOP         105         ACPR-SRI         113										
CASEMPCZB         28         ACTFD2V0B         25         ACLISH BULK         51         ACLISH HOR         102         ACPM-TB BULK         97           ACSMPCZB BULK         28         ACTFL         12         ACLISH BULK         51         ACLISH HOP-1         103         ACPM-TB AUL         97           ACSMPTZB PULK         30         ACLISS BULK         51         ACLISH HOP-1         103         ACPM-TB AUL         97           ACSMPTZB PULK         30         ACLISS BULK         51         ACLISH HOP-1         103         ACPM-TN AUL         97           ACSMPTZB PULK         30         ACLISS BULK         51         ACLIS-MH         104         ACPM-TN AUL         97           ACSMPTVB         28         ACTFPZVB         30         ACLISV BULK         52         ALIS-MHDD         105         ACPR-BLU         113           ACGAF         12         ACTFPZVB         30         ACLISEN BULK         52         ALIS-MHDDC         104         ACPR-GNN         113           ACGAF         12         ACTM BULK         12         ACLISEN BULK         52         ALIS-MHDE         105         ACPR-SBL         113           ACGAF         12         ACTM BULK         12								113	ACPM-RN-AU	99
ICCSMPUZB BULK         28         ACTF2         12         ACJCSHL BULK         51         ACJS-HHOP         103         ACPM-TB-AU         97           ACSMPUZPAU         28         ACTFP2 BULK         30         ACJCSS BULK         51         ACJS-HHOP         103         ACPM-TN BULK         97           ACSMPUZVB         28         ACTFP2B         30         ACJCSS BULK         51         ACJS-HHOP         104         ACPM-TN-AU         97           ACSMPVZV         28         ACTFP2B         30         ACJCSV BULK         51         ACJS-MH         104         ACPR-TN-AU         97           ACSMPV         28         ACTFP2V         30         ACJCSH BULK         52         ALJS-MHD905         102         ACPR-BLK         113           ACGAF         12         ACTFP2V         30         ACJCGSH BULK         52         ALJS-MHD95         102         ACPR-BRU         113           ACGAF         12         ACTM         12         ACJGOSU BULK         52         ALJS-MHD96         105         ACPR-SBL         113           ACGAF         12         ACTMB         12         ACJGOSU BULK         52         ALJS-MHDR-MU         105         ACPR-SBL         113	AC5MPNZ-AU	28	AC7FDZV		ACJC10VL BULK		ACJR-YEL			
ICCSMPUZE-AL         28         AC7FPZ         30         AC/CCSS BULK         51         AC/LS-HH0P-1         103         ACPM-TN         97           ACSMPIZV         28         AC7FPZ BULK         30         AC/CSS BULK         51         AC/S-HM         104         ACPM-TN BULK         97           ACSMPVZVB         28         AC/FPZB BULK         30         AC/CSV BULK         51         AC/S-MHD         105         ACPR-BLU         113           ACSMPVB         28         AC/FPZV         30         AC/CGP BULK         52         AC/S-MHD         105         ACPR-BLU         113           ACSMPVB         28         AC/FPZVV         30         AC/CGP BULK         52         AC/S-MHDD         106         ACPR-GRN         113           ACSAF         12         AC/FTR         15         AC/FPZVB         30         AC/CGP BULK         52         AC/S-MHDDE         105         ACPR-SRL         113           ACGAF         12         AC/GVB BULK         52         AC/S-MHDE         105         ACPR-SRL         113           ACGAF         12         AC/GVB BULK         52         AC/S-MHDEM*         105         ACPR-SRL         113           ACGAFDZ         25 </td <td></td>										
ACSMPTIZY         28         ACTP2 BULK         30         ACLOSS BULK         51         ACLS-H         104         ACPM-TN BULK         97           ACSMPTZVB         28         ACTP2B         30         ACLOSV BULK         51         ACLS-MC         104         ACPM-TN-AU         97           ACSMPY         28         ACTP2B BULK         30         ACLOSV, BULK         51         ACLS-MH         104         ACPR-BLK         113           ACSMPY         28         ACTP2VB         30         ACLOCH BULK         52         ACLS-MHD955         102         ACPR-GRN         113           ACGAF         12         ACTPR         15         ACLOCB BULK         52         ACLS-MHD955         102         ACPR-GRN         113           ACGAF         12         ACTR         TA         ACLOCB BULK         52         ACLS-MHD01         105         ACPR-SRL         113           ACGAF         12         ACTMB BULK         12         ACTMB BULK         12         ACLOCB BULK         52         ACLS-MHDM         103         ACPR-SRL         113           ACGAFB         12         ACTMB BULK         12         ACLOCB BULK         52         ACLS-MHDM         103         ACPR-SRL <td></td>										
ICESMPUZVB         28         ACTPR2B         00         ACJCSV BULK         51         ACJCSVMC         104         ACPM-TN-AU         97           AGSMPV         28         ACTPT2B         00         ACJCSVL BULK         51         ACJS-MMC         104         ACPR-BLK         113           ACSMPVB         28         ACTFP2V         30         ACJCSVL BULK         52         ACJS-MHD         105         ACPR-GRN         113           ACSMP         15         ACTFP2VB         30         ACJCGSL BULK         52         ACJS-MHDC         104         ACPR-GRN         113           ACGAF         12         ACTM         12         ACJCGV BULK         52         ACJS-MHDC         105         ACPR-SBL         113           ACGAF         12         ACTMB         12         ACJCGV BULK         52         ACJS-MHDCM*         105         ACPR-SBL         113           ACGAFB         12         ACTMB BULK         12         ACJCGV BULK         52         ACJS-MHDCM*         105         ACPR-SRD         113           ACGAFDZ         25         ACTMDZ BULK         53         ACJS-MHDR         103         ACPR-SRD         113           ACGAFDZ         25										
CCSMPU         28         AC7FP2B BULK         30         AC/CGVL BULK         51         ACLS-MH         104         ACPR-BLL         113           ACSMPVB         28         AC7FPZV         30         ACJCGH BULK         52         ACJS-MHD         105         ACPR-BR.U         113           ACSMR         15         AC7FPZVB         30         ACJCGH BULK         52         ACJS-MHD         104         ACPR-GRN         113           ACGAF         12         AC7FR         113         ACJCGV BULK         52         ACJS-MHDC         104         ACPR-GRN         113           ACGAF         12         AC7M         12         ACJCGV BULK         52         ACJS-MHDE         105         ACPR-SRL         113           ACGAFB         12         ACTMB         12         ACJGV BULK         52         ACJS-MHDE         105         ACPR-SRL         113           ACGAFB         12         ACTMB         12         ACJGVB BULK         52         ACJS-MHDE         105         ACPR-SRL         113           ACGAFDZ         25         ACJOSV BULK         53         ACJS-MHDE         103         ACPR-SRL         113           ACGAFDZ         25         ACJOSV BULK </td <td></td>										
LČEŠMPVB         28         ACZPRZV         30         ACJG6H BULK         52         ACJS-MHD         105         ACPR-RU         113           ACSMR         15         ACTFPZVB         30         ACJG6H BULK         52         ACJS-MHD         105         ACPR-GRN         113           ACGAF         12         ACTM         12         ACJG6B BULK         52         ACJS-MHDC         104         ACPR-GRN         113           ACGAF BULK         12         ACTM BULK         12         ACJG6V BULK         52         ACJS-MHDC         105         ACPR-SRL         113           ACGAF BULK         12         ACJG6V BULK         52         ACJS-MHDCM         105         ACPR-SRL         113           ACGAFB BULK         12         ACJG6V BULK         52         ACJS-MHDM         103         ACPR-SWL         113           ACGAFD AUL         12         ACTMD Z         SA         ACJGSV BULK         52         ACJS-MHDM         103         ACPR-SWL         113           ACGAFD Z         S         ACJMDZ BULK         25         ACJG9V BULK         53         ACJS-MHOM         103         ACPR-SWL         113           ACGAFDZ BULK         25         ACJG9V BULK <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
ACSMR         15         AC7PF2VB         30         ACJC6HL BULK         52         ACJS-MHD05         102         ACPR-GRN         113           AC6AF         12         ACTM         12         ACJGSB BULK         52         ACJS-MHDC         104         ACPR-GRN         113           AC6AF         12         ACTM         12         ACJGVB BULK         52         ACJS-MHDC         105         ACPR-SBL         113           AC6AFB         12         ACTMB         12         ACJGVU BULK         52         ACJS-MHDC         105         ACPR-SBL         113           AC6AFB         12         ACTMB         12         ACJGVU BULK         52         ACJS-MHDR*         105         ACPR-SRD         113           AC6AFD         12         ACTMDZ         25         ACJC9VU BULK         53         ACJS-MHDR*         103         ACPR-SVH         113           AC6AFDZ         25         ACTMDZ         25         ACJC9VU BULK         53         ACJS-MHOR         103         ACPR-SVH         113           AC6AFDZ         25         ACTMDZ         25         ACJC9VU BULK         53         ACJS-MHOR         103         ACPR-SVH         113           AC6AFDZB										
ACGAF BULK         12         ACTM         12         ACCICSU BULK         52         ACJS-MHDCM         105         ACPR-RED         113           ACGAFB         12         ACTM BULK         12         ACJS-MHDCM*         105         ACPR-SBL         113           ACGAFB         12         ACTMB         12         ACJCSV BULK         52         ACJS-MHDE**         105         ACPR-SBL         113           ACGAFB BULK         12         ACTMB BULK         12         ACJCSV BULK         52         ACJS-MHDE**         105         ACPR-SWH         113           ACGAFB-UL         12         ACTMDZ         25         ACJCSV BULK         53         ACJS-MHDE*         103         ACPR-SWH         113           ACGAFDZ         25         ACJCSV BULK         53         ACJS-MHDP*         103         ACPR-SWH         113           ACGAFDZ AU         25         ACTMDZB         25         ACJCSV BULK         53         ACJS-MHDP*         103         ACPR-SWH         113           ACGAFDZ AU         25         ACTMDZB         25         ACJCSV BULK         53         ACJS-MHDP*1         103         ACPR-SEB BULK         98           ACGAFDZ AU         25         ACTMDZVB	AC5MR	15	AC7FPZVB	30	ACJC6HL BULK	52				113
ACGAF-AU         12         AC7M BULK         12         ACJGV BULK         52         ACJS-MHDE         105         ACPR-SBK         113           ACGAFB         12         AC7MB         12         ACJGVLBULK         52         ACJS-MHDEM**         105         ACPR-SBL         113           ACGAFB         12         AC7MB BULK         12         ACJGVLBULK         52         ACJS-MHDM**         105         ACPR-SBL         113           ACGAFB-AU         12         AC7MBJ         12         ACJGVLK         52         ACJS-MHDR**         105         ACPR-SWH         113           ACGAFD2         25         AC7MDZ         25         ACJGVB BULK         53         ACJS-MHDR         103         ACPR-WHT         113           ACGAFD2         25         AC7MDZB         25         ACJGVULK         53         ACJS-MHOP         103         ACPR-WHT         113           ACGAFD2         25         ACTMDZB         25         ACJGVULK         53         ACJS-MHOP         103         ACPR-SBL         88           ACGAFD2B         25         ACTMDZV         25         ACJD-BLU         113         ACJS-MHS         104         ACPS-GB         98           ACGAFD2B										
AC6AFB         12         AC7MB         12         ACICPU BULK         52         ACJS-MHDEM*         105         ACPR-SBL         113           AC6AFB         12         AC7MB         12         AC7MB         12         ACICPH BULK         52         ACJS-MHDM*         105         ACPR-SRD         113           AC6AFB-AU         12         AC7MDZ         25         ACJCSB         SULK         52         ACJS-MHDRM         103         ACPR-SWH         113           AC6AFDZ         25         AC7MDZ BULK         25         ACJCSV BULK         53         ACJS-MHOM         103         ACPR-SWH         113           AC6AFDZ         25         ACTMDZB BULK         25         ACJCSV BULK         53         ACJS-MHOP         103         ACPR-YEL         113           AC6AFDZB         25         ACTMDZVB         25         ACJD-BLU         113         ACJS-MHS         104         ACPS-GB         98           AC6AFDZB         25         ACTMDZVB         25         ACJD-BLU         113         ACJS-MHS         104         ACPS-GB         98           AC6AFDZB-AU         25         ACTMDZVB         25         ACD-BRU         113         ACJS-MHS         105         AC										
ACGAFB BULK         12         AC/CMB BULK         12         ACICGH BULK         52         ACJS-MHOM*         105         ACPR-SRD         113           ACGAFB-AU         12         ACTMBJ         12         ACJCGHL BULK         52         ACJS-MHOR         103         ACPR-SWH         113           ACGAFB_1         12         ACTMDZ         25         ACJCSB BULK         53         ACJS-MHOR         103         ACPR-SWH         113           ACGAFDZ         25         ACTMDZ BULK         25         ACJCSB BULK         53         ACJS-MHOP         103         ACPR-WHT         113           ACGAFDZ BULK         25         ACTMDZB BULK         25         ACJCSV BULK         53         ACJS-MHOP-1         103         ACPR-SCB         98           ACGAFDZB BULK         25         ACJD-BLK         113         ACJS-MHR         104         ACPS-GB BULK         98           ACGAFDZB BULK         25         ACJD-BLK         113         ACJS-MHR         104         ACPS-GB WULK         98           ACGAFDZB AU         25         ACTMDZ         25         ACJD-BLN         113         ACJS-MHS3         105         ACPS-GN WULK         98           ACGAFDZB AU         25 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
ACGAFB-AU         12         AC7MBJ         12         ACQHL BULK         52         ACJS-MHDR         103         ACPR-SYL         113           ACGAFDZ         25         AC7MDZ         25         ACJOSS BULK         53         ACJS-MHDRM         103         ACPR-SYL         113           ACGAFDZ         25         AC7MDZB         25         ACJOSS BULK         53         ACJS-MHOM         103         ACPR-WHT         113           ACGAFDZ BULK         25         AC7MDZB         25         ACJOSVL BULK         53         ACJS-MHOP         103         ACPR-VEL         113           ACGAFDZB         25         AC7MDZW         25         ACJOPLK         113         ACJS-MHR         104         ACPS-GB BULK         98           ACGAFDZB         25         AC7MDZW         25         ACJD-REL         113         ACJS-MHS         104         ACPS-GB-AU         98           ACGAFDZW         25         AC7MP         30         ACJD-RED         113         ACJS-MN-3         105         ACPS-GN BULK         98           ACGAFDZ         29         AC7MP BULK         30         ACJD-FEL         113         ACJS-MV35-3         102         ACPS-KB BULK         96										
ACGAFEJ         12         ACT/NDZ         25         ACJGSS BULK         53         ACJS-MHDRM         103         ACPR-SYL         113           ACGAFDZ         25         ACT/MDZ BULK         25         ACJOSSL BULK         53         ACJS-MHOM         103         ACPR-SYL         113           ACGAFDZ BULK         25         ACT/MDZ BULK         25         ACJOSV BULK         53         ACJS-MHOP         103         ACPR-YEL         113           ACGAFDZ BULK         25         ACTMDZB BULK         25         ACJOSV BULK         53         ACJS-MHOP-1         103         ACPR-SGB         98           ACGAFDZB BULK         25         ACTMDZV         25         ACJD-BLU         113         ACJS-MHR         104         ACPS-GB BULK         98           ACGAFDZB AU         25         ACTMJ         12         ACJD-GRN         113         ACJS-MN-35         105         ACPS-GN AU         98           ACGAFDZV         25         ACTMP         30         ACJD-PED         113         ACJS-MN-35         105         ACPS-GN BULK         98           ACGAFDZB         29         ACTMPB         30         ACJD-PED         113         ACJS-MV35-3         102         ACPS-KB         96<										
AC6AFDZ         25         AC7MDZ BULK         25         ACJGSL BULK         53         ACJS-MHOM         103         ACPR-WHT         113           AC6AFDZ BULK         25         ACJG9V BULK         53         ACJS-MHOP         103         ACPR-YEL         113           AC6AFDZ-AU         25         AC7MDZB         25         ACJOPUK         53         ACJS-MHOP-1         103         ACPR-YEL         113           AC6AFDZA         25         AC7MDZW         25         ACJO-BLK         113         ACJS-MHR         104         ACPS-GB BULK         98           AC6AFDZBAU         25         AC7MDZW         25         ACJD-BLK         113         ACJS-MN-S1         105         ACPS-GN         98           AC6AFDZASAU         25         AC7MP         30         ACJD-RED         113         ACJS-MN-S1         105         ACPS-GN         98           AC6AFDZ         29         AC7MPB         30         ACJD-PED         113         ACJS-MN-S1         105         ACPS-GN-AU         98           AC6AFDZ         29         AC7MPB         30         ACJM-HDR         102         ACJS-MV35-31         102         ACPS-KB BULK         96           AC6AFPZ         29										
ACGAFDZ-AU         25         AC7MDZB BULK         25         ACJC9VL BULK         53         ACJS-MHOP-1         103         ACPS-GB         98           ACGAFDZB         25         ACTMDZV         25         ACJD-BLK         113         ACJS-MHR         104         ACPS-GB         98           ACGAFDZB         25         ACTMDZV         25         ACJD-BLU         113         ACJS-MHS         104         ACPS-GB         98           ACGAFDZB         25         ACTMDZV         25         ACTMDZV         25         ACTMD         98           ACGAFDZV         25         ACTMP         30         ACJD-RED         113         ACJS-MN-3S         105         ACPS-GN         98           ACGAFDZV         25         ACTMP         30         ACJD-RED         113         ACJS-MN-3S         105         ACPS-GN         98           ACGAFDZ         29         ACTMPB         30         ACJD-YEL         113         ACJS-MV35-5         102         ACPS-KB         96           ACGAFPZ         29         ACTMPNZ         29         ACJM-HHOP         103         ACJS-MV35-3S         102         ACPS-KB         96           ACGAFPZ BULK         29         ACJM-HOP-1 <td>AC6AFDZ</td> <td>25</td> <td>AC7MDZ BULK</td> <td>25</td> <td>ACJC9SL BULK</td> <td>53</td> <td>ACJS-MHOM</td> <td>103</td> <td></td> <td>113</td>	AC6AFDZ	25	AC7MDZ BULK	25	ACJC9SL BULK	53	ACJS-MHOM	103		113
AC6AFD2B         25         AC7MDZV         25         ACJD-BLK         113         ACJS-MHR         104         ACPS-GB BULK         98           AC6AFD2B BULK         25         AC7MDZVB         25         ACJD-BLU         113         ACJS-MHS         104         ACPS-GB BULK         98           AC6AFD2B BULK         25         AC7MJ         12         ACJD-GRN         113         ACJS-MN-3         105         ACPS-GN         98           AC6AFD2V         25         AC7MP         30         ACJD-RED         113         ACJS-MN-3         105         ACPS-GN-AU         98           AC6AFD2V         25         AC7MP BULK         30         ACJD-WHT         113         ACJS-MN-5         102         ACPS-GN-AU         98           AC6AFD2V         29         AC7MPB         30         ACJD-YEL         113         ACJS-MV35-3         102         ACPS-KB         96           AC6AFP2         29         AC7MPNZ         29         ACJM-HHOP         103         ACJS-MV35-3         102         ACPS-KB AU         96           AC6AFP2B         29         AC7MPNZ BULK         29         ACJM-HHOP         103         ACJS-MV985-3         102         ACPS-KN BULK         96	AC6AFDZ BULK									
ACGAFDZB         BULK         25         AC7MDZVB         25         ACJD-BLU         113         ACJS-MHS         104         ACPS-GB-AU         98           ACGAFDZB-AU         25         AC7MJ         12         ACJD-GRN         113         ACJS-MN-3         105         ACPS-GN         98           ACGAFDZV         25         AC7MP         30         ACJD-RED         113         ACJS-MN-3         105         ACPS-GN-AU         98           ACGAFDZVB         25         AC7MP BULK         30         ACJD-VHT         113         ACJS-MN-5         105         ACPS-GN-AU         98           ACGAFDZ         29         AC7MPB BULK         30         ACJD-VHT         113         ACJS-MV3-5         102         ACPS-KB         96           ACGAFPZ         29         AC7MPNZ         29         ACJM-HHDR         102         ACJS-MV35-3         102         ACPS-KB-AU         96           ACGAFPZ BULK         29         AC7MPNZ         29         ACJM-HHOP-1         103         ACJS-MV35-3S         102         ACPS-KN-AU         96           ACGAFPZ BULK         29         AC7MPNZB         29         ACJM-HHOP-1         103         ACJS-MVD985-3S         102         ACPS-KN BULK										
AC6AFDZB-AU       25       AC7MJ       12       ACJD-GRN       113       ACJS-MN-3       105       ACPS-GN       98         AC6AFDZV       25       AC7MP       30       ACJD-RED       113       ACJS-MN-3S       105       ACPS-GN BULK       98         AC6AFDZVB       25       AC7MP BULK       30       ACJD-WHT       113       ACJS-MN-5       105       ACPS-GN-AU       98         AC6AFJ       12       AC7MPB BULK       30       ACJD-YEL       113       ACJS-MV3-5       102       ACPS-KB BULK       96         AC6AFPZ BULK       29       AC7MPNZ       29       ACJM-HHDR       102       ACJS-MV35-3       102       ACPS-KB AU       96         AC6AFPZ BULK       29       ACJM-HHDP-1       103       ACJS-MV35-3S       102       ACPS-KN 4U       96         AC6AFPZB       29       AC7MPNZB       29       ACJM-HHDP-1       103       ACJS-MVD85-3S       102       ACPS-KN 8ULK       96         AC6AFPZB       29       AC7MPNZB       29       ACJM-HHDP-1       103       ACJS-MVD85-3S       102       ACPS-KN 8ULK       96         AC6AFPZB       29       AC7MPNZB       29       ACJM-HHDP-1       104       ACJS-MVD8-3S										
AC6AFDZV         25         AC7MP         30         ACJD-RED         113         ACJS-MN-3S         105         ACPS-GN BULK         98           AC6AFDZVB         25         AC7MP BULK         30         ACJD-WHT         113         ACJS-MN-5         105         ACPS-GN-AU         98           AC6AFJ         12         AC7MPB BULK         30         ACJD-YEL         113         ACJS-MV3-5         102         ACPS-KB         96           AC6AFPZ         29         AC7MPB BULK         30         ACJM-HHDR         102         ACJS-MV35-3         102         ACPS-KB BULK         96           AC6AFPZ         29         AC7MPNZ         29         ACJM-HHDP         103         ACJS-MV35-3S         102         ACPS-KB BULK         96           AC6AFPZ BULK         29         ACJM-HHOP-1         103         ACJS-MVD985-3S         102         ACPS-KN BULK         96           AC6AFPZ BULK         29         ACJM-HHOP-1         103         ACJS-MVD985-3S         102         ACPS-KN BULK         96           AC6AFPZ BULK         29         ACJM-MHD         104         ACJS-MVD985-3S         102         ACPS-KN BULK         96           AC6AFPZ BULK         29         ACJM-MHD         1										
AC6AFDZVB       25       AC7MP BULK       30       ACJD-WHT       113       ACJS-MN-5       105       ACPS-GN-AU       98         AC6AFJ       12       AC7MPB       30       ACJD-YEL       113       ACJS-MV3-5       102       ACPS-KB       96         AC6AFPZ       29       AC7MPB BULK       30       ACJM-HHDR       102       ACJS-MV35-3       102       ACPS-KB       96         AC6AFPZ BULK       29       AC7MPNZ       29       ACJM-HHDP       103       ACJS-MV35-3S       102       ACPS-KB       96         AC6AFPZAU       29       AC7MPNZ BULK       29       ACJM-HHDP-1       103       ACJS-MV058-3S       102       ACPS-KN       96         AC6AFPZB       29       AC7MPNZB       29       ACJM-HH       104       ACJS-MV0985-3       102       ACPS-KN       96         AC6AFPZB       29       AC7MPNZB       29       ACJM-MC       104       ACJS-MV0985-3       102       ACPS-KN-NAU       96         AC6AFPZB-AU       29       AC7MPNZV       29       ACJM-MH       103       ACJS-MVS-3       106       ACPS-RB       99         AC6AFPZB-BAU       29       ACJM-MHD       105       ACJS-MVS-5       106										
AC6AFJ       12       AC7MPB       30       ACJD-YEL       113       ACJS-MV3-5       102       ACPS-KB       96         AC6AFPZ       29       AC7MPB BULK       30       ACJM-HHDR       102       ACJS-MV35-3       102       ACPS-KB BULK       96         AC6AFPZ BULK       29       AC7MPNZ       29       ACJM-HHDP       103       ACJS-MV35-3S       102       ACPS-KB AU       96         AC6AFPZ BULK       29       AC7MPNZ BULK       29       ACJM-HHOP-1       103       ACJS-MV0985-3       102       ACPS-KN 4U       96         AC6AFPZB       29       AC7MPNZB       29       ACJM-HHOP-1       103       ACJS-MV0985-3       102       ACPS-KN 4U       96         AC6AFPZB       29       AC7MPNZB       29       ACJM-ME       104       ACJS-MV0985-3       102       ACPS-KN 4U       96         AC6AFPZB       29       AC7MPNZB       29       ACJM-MHD       105       ACJS-MVS-3       106       ACPS-RB       99         AC6AFPZ       29       ACJM-MHD       105       ACJS-MVS-3       106       ACPS-RB       99         AC6AFPZ       29       ACJM-MHDS5       102       ACJS-MV3-5       106       ACPS-RB       99<										
ACGAPPZ BULK         29         AC7MPNZ         29         ACJM-HHOP         103         ACJS-MV35-3S         102         ACPS-KB-AU         96           ACGAFPZ-AU         29         AC7MPNZ BULK         29         ACJM-HHOP-1         103         ACJS-MV035-3S         102         ACPS-KB-AU         96           ACGAFPZB         29         AC7MPNZB         29         ACJM-HH         104         ACJS-MV0985-3         102         ACPS-KN         96           ACGAFPZB         29         AC7MPNZB         29         ACJM-HH         104         ACJS-MV0985-3         102         ACPS-KN         96           ACGAFPZB         29         AC7MPNZB         29         ACJM-MH         103         ACJS-MV0985-5         102         ACPS-KN-AU         96           ACGAFPZV         29         AC7MPNZV         29         ACJM-MH         103         ACJS-MVS-S         106         ACPS-RB         99           ACGAFPZV         29         AC7MPVZ         30         ACJM-MHD         105         ACJS-MVS-S         106         ACPS-RB         99           ACGAFPZVB         29         AC7MPV         30         ACJM-MHDC         104         ACJS-NV35-3         102         ACPS-RN         99 </td <td></td> <td></td> <td></td> <td></td> <td>ACJD-YEL</td> <td>113</td> <td>ACJS-MV3-5</td> <td>102</td> <td>ACPS-KB</td> <td>96</td>					ACJD-YEL	113	ACJS-MV3-5	102	ACPS-KB	96
AC6AFPZ-AU       29       AC7MPNZ BULK       29       ACJM-HHOP-1       103       ACJS-MVD985-3       102       ACPS-KN       96         AC6AFPZB       29       AC7MPNZB       29       ACJM-HH       104       ACJS-MVD985-3S       102       ACPS-KN       96         AC6AFPZB       29       AC7MPNZB       29       ACJM-MC       104       ACJS-MVD985-3S       102       ACPS-KN BULK       96         AC6AFPZB       29       AC7MPNZB BULK       29       ACJM-MC       104       ACJS-MVD985-5       102       ACPS-KN-AU       96         AC6AFPZB-AU       29       AC7MPNZV       29       ACJM-MH       103       ACJS-MVS-3       106       ACPS-RB       99         AC6AFPZV       29       AC7MPXVB       29       ACJM-MHD       105       ACJS-MVS-3       106       ACPS-RB       99         AC6AFPZV       29       AC7MPV       30       ACJM-MHD       104       ACJS-NVS-35       106       ACPS-RB-AU       99         AC6AFR       15       AC7MR       15       ACJM-MHDC       104       ACJS-NV35-3       102       ACPS-RN       99         AC6AM       12       AC-BNC20A       85       ACJM-MHDCM       104 <t< td=""><td>AC6AFPZ</td><td>29</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	AC6AFPZ	29								
AC6AFPZB         29         AC7MPNZB         29         ACJM-IH         104         ACJS-MVD985-3S         102         ACPS-KN BULK         96           AC6AFPZB BULK         29         AC7MPNZB BULK         29         ACJM-MC         104         ACJS-MVD985-5         102         ACPS-KN-AU         96           AC6AFPZB-AU         29         AC7MPNZB BULK         29         ACJM-MC         104         ACJS-MVS-3         106         ACPS-RB         99           AC6AFPZV         29         AC7MPNZV         29         ACJM-MHD         105         ACJS-MVS-3         106         ACPS-RB         99           AC6AFPZV         29         AC7MPNZV         29         ACJM-MHD         105         ACJS-MVS-3         106         ACPS-RB         99           AC6AFPZV         29         AC7MPVB         30         ACJM-MHD895         102         ACJS-MVS-5         106         ACPS-RB AU         99           AC6AFR         15         AC7MPVB         30         ACJM-MHDC         104         ACJS-NV35-3         102         ACPS-RN         99           AC6AMM         12         AC7MR         15         ACJM-MHDC         104         ACJS-NV35-3S         102         ACPS-RN BULK         99										
AC6AFP2B BULK         29         AC7MPNZB BULK         29         ACJM-MC         104         ACJS-MVD985-5         102         ACPS-KN-AU         96           AC6AFP2B-AU         29         AC7MPNZV         29         ACJM-MH         103         ACJS-MVS-3         106         ACPS-RB         99           AC6AFP2V         29         AC7MPNZV         29         ACJM-MHD         105         ACJS-MVS-3         106         ACPS-RB BULK         99           AC6AFPZV         29         AC7MPVZB         29         ACJM-MHD         105         ACJS-MVS-3         106         ACPS-RB BULK         99           AC6AFPZVB         29         AC7MPV         30         ACJM-MHDC         104         ACJS-MVS-5         106         ACPS-RB AU         99           AC6AFR         15         AC7MPVB         30         ACJM-MHDC         104         ACJS-NV35-3         102         ACPS-RN         99           AC6AM         12         AC-BNC LABEL         85         ACJM-MHDCM         104         ACJS-NV35-3         102         ACPS-RN-AU         99           AC6AM-AU         12         AC-BNC20A         85         ACJM-MHDEM*         105         ACJS-NV35-3         102         ACPS-RN-AU         99										
AC6APPZB-AU         29         AC7MPNZV         29         ACJM-MH         103         ACJS-MVS-3         106         ACPS-RB         99           AC6AFPZV         29         AC7MPNZVB         29         ACJM-MHD         105         ACJS-MVS-3         106         ACPS-RB         99           AC6AFPZV         29         AC7MPNZVB         29         ACJM-MHD         105         ACJS-MVS-3S         106         ACPS-RB BULK         99           AC6AFPZVB         29         AC7MPV         30         ACJM-MHD2         104         ACJS-MVS-5         106         ACPS-RB-AU         99           AC6AFR         15         AC7MPVB         30         ACJM-MHDC         104         ACJS-NV35-3         102         ACPS-RN         99           AC6AM         12         AC7MR         15         ACJM-MHDC         104         ACJS-NV35-3         102         ACPS-RN BULK         99           AC6AM BULK         12         AC-BNC20A         85         ACJM-MHDE         105         ACJS-NV35-3S         102         ACPS-RN-AU         99           AC6AMB         12         AC-BNC20A         85         ACJM-MHDEM*         105         ACJS-NV35-5         102         ACPS-RB         97										
AC6AFPZV         29         AC7MPNZVB         29         ACJM-MHD         105         ACJS-MVS-3S         106         AC9S-RB BULK         99           AC6AFPZVB         29         AC7MPV         30         ACJM-MHD985         102         ACJS-MVS-5         106         AC9S-RB-AU         99           AC6AFR         15         AC7MPVB         30         ACJM-MHD085         102         ACJS-NVS-5         106         AC9S-RB-AU         99           AC6AFR         15         AC7MPVB         30         ACJM-MHDC         104         ACJS-NV35-3         102         AC9S-RN BULK         99           AC6AM         12         AC-BNC LABEL         85         ACJM-MHDE         105         ACJS-NV35-3         102         AC9S-RN-AU         99           AC6AM-AU         12         AC-BNC20A         85         ACJM-MHDE         105         ACJS-NV35-3S         102         AC9S-RN-AU         99           AC6AMB         12         AC-BNC20A         85         ACJM-MHDEM*         105         ACJS-NV35-S         102         AC9S-RN-AU         99           AC6AMB         12         AC-BNC20AJ75         85         ACJM-MHDM*         105         ACJS-PC         104         AC9S-TB BULK         97										
AC6AFPZVB         29         AC7MPV         30         ACJM-MHD985         102         ACJS-MVS-5         106         ACPS-RB-AU         99           AC6AFR         15         AC7MPVB         30         ACJM-MHDC         104         ACJS-NH35         102         ACPS-RB         409           AC6AFR         15         AC7MPVB         30         ACJM-MHDC         104         ACJS-NH35         102         ACPS-RN         99           AC6AM         12         AC7MR         15         ACJM-MHDCM         104         ACJS-NV35-3         102         ACPS-RN BULK         99           AC6AM BULK         12         AC-BNC LABEL         85         ACJM-MHDEM         105         ACJS-NV35-3S         102         ACPS-RN-AU         99           AC6AMB         12         AC-BNC 20A         85         ACJM-MHDEM*         105         ACJS-NV35-5         102         ACPS-RN-AU         99           AC6AMB         12         AC-BNC20A         85         ACJM-MHDEM*         105         ACJS-NV35-5         102         ACPS-TB         97           AC6AMB         12         AC-BNC20A75         85         ACJM-MHDM*         103         ACJS-PC         104         ACPS-TB AU         97										
AC6AFR         15         AC7MPVB         30         ACJM-MHDC         104         ACJS-NH35         102         ACPS-RN         99           AC6AM         12         AC7MR         15         ACJM-MHDCM         104         ACJS-NV35-3         102         ACPS-RN         BULK         99           AC6AM         12         AC7MR         15         ACJM-MHDCM         104         ACJS-NV35-3         102         ACPS-RN BULK         99           AC6AM         12         AC-BNC LABEL         85         ACJM-MHDEM         105         ACJS-NV35-3S         102         ACPS-RN-AU         99           AC6AM-AU         12         AC-BNC20A         85         ACJM-MHDEM*         105         ACJS-NV35-S         102         ACPS-RB ULK         97           AC6AMB         12         AC-BNC20AJ75         85         ACJM-MHDM*         105         ACJS-PC         104         ACPS-TB BULK         97           AC6AMB BULK         12         AC-BNC20BAP75         85         ACJM-MHDR         103         ACJS-PH         104         ACPS-TN AU         97           AC6AMB_AU         12         AC-BNC20B         85         ACJM-MHDRM         103         ACJS-PHOM         103         ACPS-TN										
AC6AM BULK         12         AC-BNC LABEL         85         ACJM-MHDE         105         ACJS-NV35-3S         102         ACPS-RN-AU         99           AC6AM-AU         12         AC-BNC20A         85         ACJM-MHDEM*         105         ACJS-NV35-5         102         ACPS-RN-AU         99           AC6AM-AU         12         AC-BNC20A         85         ACJM-MHDEM*         105         ACJS-NV35-5         102         ACPS-TB         97           AC6AMB         12         AC-BNC20AJ75         85         ACJM-MHDM*         105         ACJS-PC         104         ACPS-TB BULK         97           AC6AMB BULK         12         AC-BNC20AP75         85         ACJM-MHDR         103         ACJS-PH         104         ACPS-TB-AU         97           AC6AMB-AU         12         AC-BNC20B         85         ACJM-MHDRM         103         ACJS-PHOM         103         ACPS-TN         97           AC6AMBJ         12         AC-BNC20BJ75         85         ACJM-MHOM         103         ACJS-PHOM         103         ACPS-TN         97           AC6AMDJ         12         AC-BNC20BJ75         85         ACJM-MHOM         103         ACJS-PHOP         103         ACPS-TN <t< td=""><td></td><td></td><td>AC7MPVB</td><td>30</td><td>ACJM-MHDC</td><td>104</td><td>ACJS-NH35</td><td>102</td><td>ACPS-RN</td><td></td></t<>			AC7MPVB	30	ACJM-MHDC	104	ACJS-NH35	102	ACPS-RN	
AC6AM-AU         12         AC-BNC20A         85         ACJM-MHDEM*         105         ACJS-NV35-5         102         ACPS-TB         97           AC6AMB         12         AC-BNC20AJ75         85         ACJM-MHDM*         105         ACJS-NV35-5         102         ACPS-TB         97           AC6AMB         12         AC-BNC20AJ75         85         ACJM-MHDM*         105         ACJS-PC         104         ACPS-TB BULK         97           AC6AMB BULK         12         AC-BNC20AP75         85         ACJM-MHDR         103         ACJS-PH         104         ACPS-TB-AU         97           AC6AMB_AU         12         AC-BNC20B         85         ACJM-MHDR         103         ACJS-PH         104         ACPS-TN         97           AC6AMBJ         12         AC-BNC20BJ75         85         ACJM-MHOM         103         ACJS-PHOP         103         ACPS-TN         97           AC6AMDZ         25         AC-BNC20BP75         85         ACJM-MHOP         103         ACJS-PHOP-1         103         ACPS-TN BULK         97           AC6AMDZ         25         AC-BNC20M         85         ACJM-MHOP         103         ACJS-PHOP-1         103         ACPS-TN-AU         97 </td <td></td>										
AC6AMB         12         AC-BNC20AJ75         85         ACJM-MHDM*         105         ACJS-PC         104         ACPS-TB BULK         97           AC6AMB BULK         12         AC-BNC20AP75         85         ACJM-MHDR         103         ACJS-PH         104         ACPS-TB-AU         97           AC6AMB BULK         12         AC-BNC20B         85         ACJM-MHDR         103         ACJS-PH         104         ACPS-TB-AU         97           AC6AMB-AU         12         AC-BNC20B         85         ACJM-MHDRM         103         ACJS-PHOM         103         ACPS-TN         97           AC6AMDJ         12         AC-BNC20BJ75         85         ACJM-MHOR         103         ACJS-PHOP         103         ACPS-TN         97           AC6AMDZ         25         AC-BNC20BP75         85         ACJM-MHOP         103         ACJS-PHOP-1         103         ACPS-TN-AU         97           AC6AMDZ         25         AC-BNC20M         85         ACJM-MHOP-1         103         ACJS-PHOP-1         103         ACPS-TN-AU         97           AC6AMDZ BULK         25         AC-BNC20M         85         ACJM-MHOP-1         103         ACJS-PHOP-1         104         AC-RING-BLU										
AC6AMB BULK         12         AC-BNC20AP75         85         ACJM-MHDR         103         ACJS-PH         104         ACPS-TB-AU         97           AC6AMB-AU         12         AC-BNC20B         85         ACJM-MHDRM         103         ACJS-PHOM         103         ACPS-TN         97           AC6AMBJ         12         AC-BNC20BJ75         85         ACJM-MHORM         103         ACJS-PHOP         103         ACPS-TN         97           AC6AMDJ         12         AC-BNC20BJ75         85         ACJM-MHOM         103         ACJS-PHOP         103         ACPS-TN BULK         97           AC6AMDZ         25         AC-BNC20BP75         85         ACJM-MHOP         103         ACJS-PHOP-1         103         ACPS-TN-AU         97           AC6AMDZ BULK         25         AC-BNC20M         85         ACJM-MHOP-1         103         ACJS-PHOP-1         103         ACPS-TN-AU         97										
AC6AMB-AU         12         AC-BNC20B         85         ACJM-MHDRM         103         ACJS-PHOM         103         ACPS-TN         97           AC6AMBJ         12         AC-BNC20BJ75         85         ACJM-MHOM         103         ACJS-PHOP         103         ACPS-TN         97           AC6AMDZ         25         AC-BNC20BP75         85         ACJM-MHOP         103         ACJS-PHOP         103         ACPS-TN BULK         97           AC6AMDZ         25         AC-BNC20BP75         85         ACJM-MHOP         103         ACJS-PHOP-1         103         ACPS-TN-AU         97           AC6AMDZ BULK         25         AC-BNC20M         85         ACJM-MHOP-1         103         ACJS-PHR         104         AC-RING-BLU         80										
AC6AMBJ         12         AC-BNC20BJ75         85         ACJM-MHOM         103         ACJS-PHOP         103         ACPS-TN BULK         97           AC6AMDZ         25         AC-BNC20BP75         85         ACJM-MHOP         103         ACJS-PHOP-1         103         ACPS-TN-AU         97           AC6AMDZ BULK         25         AC-BNC20M         85         ACJM-MHOP-1         103         ACJS-PHOP-1         103         ACPS-TN-AU         97										
AC6AMDZ         25         AC-BNC20BP75         85         ACJM-MHOP         103         ACJS-PHOP-1         103         ACPS-TN-AU         97           AC6AMDZ BULK         25         AC-BNC20M         85         ACJM-MHOP-1         103         ACJS-PHOP-1         104         AC-RING-BLU         80										
AC6AMDZ BULK 25 AC-BNC20M 85 ACJM-MHOP-1 103 ACJS-PHR 104 AC-RING-BLU 80										
AC6AMDZ-AU 25 AC-BNC20MJ75 85 ACJM-MHR 104 ACJS-PHS 104 AC-RING-BLU-PK1 80	AC6AMDZ BULK	25	AC-BNC20M			103				
	AC6AMDZ-AU	25	AC-BNC20MJ75	85	ACJM-MHR	104	ACJS-PHS	104	AC-RING-BLU-PK1	80

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Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page	Part Number	Page
AC-RING-BLU-PK2	80	AX4FB BULK	5	JM2PB BULK	93	MP-4102-85S-C	121	SP-4-MDV-2	70
AC-RING-BRN	80	AX4FB-AU	5	JM2PB-AU	93	MP-4106-13S	120	SP-4-MDVT-8	70
AC-RING-GRN	80	AX4M	4	JS3P	93	MP-4106-13S-C	120	T2860	79
AC-RING-GRY AC-RING-ORG	80 80	AX4M BULK AX4M-AU	4 4	JS3P BULK JS3P-AU	93 93	MP-4106-150S MP-4106-150S-C	120 120	T2880 T2890	79 79
AC-RING-RED	80 80	AX4MB	4 5	JS3PB	93	MP-4106-1908-0	120	TH29-1	123
AC-RING-RED-PK1	80	AX4MB BULK	5	JS3PB BULK	93	MP-4106-19S-C	120	TM1P	91
AC-RING-RED-PK2	80	AX4MB-AU	5	JS3PB-AU	93	MP-4106-25S	120	TM1P BULK	91
AC-RING-VIO	80	AX5F	5	KM2P	111	MP-4106-25S-C	120	TM1P-AU	91
AC-RING-WHT	80	AX5F BULK	5	KM2P BULK	111	MP-4106-37S	120	TM1PB	91
AC-RING-YEL	80	AX5F-AU	5	KM2P-AU	111	MP-4106-37S-C	120	TM1PB BULK	91
AC-RING-YEL-PK1 AC-RING-YEL-PK2	80	AX5FB	5 5	KM2PB KM2PB BULK	111 111	MP-4106-54S	120	TM1PB-AU TM1PBJ	91 91
AG3F	80 115	AX5FB BULK AX5FB-AU	5 5	KM2PB-AU	111	MP-4106-54S-C MP-4106-85S	120 120	TM1PJ	91
AG3FCRV	115	AX5M	5	KS3P	111	MP-4106-85S-C	120	TM1RBJ	91
AG3FL	115	AX5M BULK	5	KS3P BULK	111	MP-4164-13S	121	TM1RBJ BULK	91
AG3M	115	AX5M-AU	5	KS3P-AU	111	MP-4164-13S-C	121	TM1RBJ-AU	91
AG3MCC	115	AX5MB	5	KS3PB	111	MP-4164-150S	121	TM1RJ	91
AG3MCCH	115	AX5MB BULK	5 5	KS3PB BULK KS3PB-AU	111 111	MP-4164-150S-C	121	TM1RJ BULK TM1RJ-AU	91 91
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AG4M	115	AX-BOOT-2	80	MP-108400	123	MP-4164-25S-C	121	TM2P-AU	89
AG4MCC	115	AX-BOOT-3	80	MP-108500	123	MP-4164-37S	121	TM2PB	89
AG4MCCH	115	AX-BOOT-4	80	MP-108600	123	MP-4164-37S-C	121	TM2PB BULK	89
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#### AC SERIES CABLE CONNECTORS

#### PRODUCT SAFETY INFORMATION

# **PRODUCT SAFETY INFORMATION**

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

### 1. Material Content and Physical Form

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

### 2. Fire Characteristics and Electric Shock Hazard

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

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

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

### 3. Handling

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

#### 4. Disposal

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

### 5. Application

Connectors with exposed contacts should not be selected for use on the current supply side of an electrical circuit, because an electric shock could result from touching exposed contacts of an unmated connector. Voltages in excess of 30 V.A.C. or 42.5

V.D.C. are potentially hazardous and care should be taken to ensure that such voltages cannot be transmitted in any way to exposed metal parts of the connector body. The connector and wiring should be checked, before making live, to have no damage to metal parts or insulators, no solder blobs, loose strands, conducting lubricants, swarf, or any other undesired conducting particles. Circuit resistance and continuity check should be made to make certain that there are no low resistance joints or spurious conducting paths. Always use the correct application tools as specified in the Data Sheets. Do not permit untrained personnel to wire, assemble or tamper with connectors. For operation voltage please see appropriate national regulations.

#### Important General Information

## A) Air and creepage paths / Operating voltage.

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

#### B) Other important information

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

### C) Assembly instructions

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