



## 1/4" PHONE CONNECTORS

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

### Applications

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

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

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

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

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

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



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



Large Jaws cable clamp (Purple), Cable O.D 6mm to 7mm (0.236" to 0.275")

\*Note: Applicable to T-Series straight cable connectors only. Refer to page 100 for right angle connector Jaws cable clamp specifications.

### Musician Range Cable Clamp Options



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



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

### Ordering Codes

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

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

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

## 1/4" PLUG FEATURE MATRIX

FEATURES		T SERIES (STRAIGHT)	T SERIES (RIGHT ANGLE)	JUMBO T SERIES	SWITCHPLUG T SERIES (STRAIGHT)	SWITCHPLUG T SERIES (RIGHT ANGLE)	M SERIES	M SERIES II	CUSTOM SERIES <sup>1</sup>
<b>PRECISION MACHINED CONTACTS</b>		X	X	X	X	X	X	X	X
<b>CENTER CONTACT</b>	1 pc. Center Contact	X	X	X	X	X			X*
	2 pc Press Fit Tip/Center Contact					X	X		X*
<b>BARREL:</b>	Machined Tube	X	X	X	X	X			
	Precision Extruded Tube					X	X		X
<b>JAWS CABLE CLAMP</b>		X	X		X	X			
<b>MIN. CABLE OD</b>	Black Jaw: 3mm/0.118"	X	X		X	X			
	Purple Jaw: 6mm/0.236"	X			X				
	Purple Jaw: 5.5mm/0.216"		X			X			
<b>MAX. CABLE OD</b>	Black Jaw: 6mm/0.236"	X			X				
	Black Jaw: 5.5mm/0.216"		X			X			
	Purple Jaw: 7.5mm/0.295"	X			X				
	Purple Jaw: 6.5mm/0.255"		X			X			
<b>STANDARD CABLE CLAMP</b>				X		X	X	X	
<b>MIN. CABLE OD</b>	7.5mm/0.295"			X					
<b>MAX. CABLE OD</b>	6mm/0.236"					X			
	8mm/0.315"						X		
	8.8mm/0.345"							X	
	10.5mm/0.413"			X					
<b>BACKSHELL FINISH</b>	Satin Nickel	X	X	X	X	X	X	X	
	Black	X	X	X	X	X	X	X	
	Bright Nickel								X
	Bright Gold								X
<b>CONTACT MATERIAL/ FINISH OPTIONS</b>	Brass/Nickel (Ni)	X	X	X	X	X	X	X	X
	Brass/Gold over 2µm (Ni)	X	X	X	X	X	X	X	X

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



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1/4" PHONE PLUGS

T-SERIES



**Features:**

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

**Options:** Gold Contacts, Large or Small Jaws Cable Clamp, Black Shell, Metal Backshell / Boot, Bulk Pack. Coloured grommets (ordered separately)

**Part Number Breakdown: Page 97 Specifications: Page 98**

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		1/4" (6.35mmø) Mono Phone plug, Jaws cable clamp, Thermoplastic back-shell, Satin finish.	Standard	TM2P
			Gold Plated Contacts	TM2P-AU
			Large Cable Clamp	TM2PJ
			Bulk Pack	TM2P BULK
		1/4" (6.35mmø) Mono Phone plug, Jaws cable clamp, Thermoplastic back-shell, Black finish.	Standard	TM2PB
			Gold Plated Contacts	TM2PB-AU
			Large Cable Clamp	TM2PBJ
			Bulk Pack	TM2PB BULK
		1/4" (6.35mmø) Stereo Phone plug, Jaws cable clamp, Thermoplastic back-shell, Satin finish.	Standard	TS3P
			Gold Plated Contacts	TS3P-AU
			Large Cable Clamp	TS3PJ
			Bulk Pack	TS3P BULK
		1/4" (6.35mmø) Stereo Phone plug, Jaws cable clamp, Thermoplastic back-shell, Black finish.	Standard	TS3PB
			Gold Plated Contacts	TS3PB-AU
			Large Cable Clamp	TS3PBJ
			Bulk Pack	TS3PB BULK

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1/4" PHONE PLUGS

T-SERIES (PRO RANGE)

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		1/4" (6.35mmø) Mono Phone plug, Jaws cable clamp, Metal backshell, Satin finish.	Standard Gold Plated Contacts Large Cable Clamp Bulk Pack	TM2PN TM2PN-AU TM2PNJ TM2PN BULK
		1/4" (6.35mmø) Mono Phone plug, Jaws cable clamp, Metal backshell, Black finish.	Standard Gold Plated Contacts Large Cable Clamp Bulk Pack	TM2PBM TM2PBM-AU TM2PBMJ TM2PBM BULK
		1/4" (6.35mmø) Stereo Phone plug, Jaws cable clamp, Metal backshell, Satin finish.	Standard Gold Plated Contacts Large Cable Clamp Bulk Pack	TS3PN TS3PN-AU TS3PNJ TS3PN BULK
		1/4" (6.35mmø) Stereo Phone plug, Jaws cable clamp, Metal backshell, Black finish.	Standard Gold Plated Contacts Large Cable Clamp Bulk Pack	TS3PBM TS3PBM-AU TS3PBMJ TS3PBM BULK
		1/4" (6.35mmø) Mono Phone plug, Right angle, Jaws cable clamp*, Thermoplastic backshell, Satin finish.	Standard Gold Plated Contacts Small Cable Clamp Bulk Pack	TM2RJ TM2RJ-AU TM2R TM2RJ BULK
		1/4" (6.35mmø) Mono Phone plug, Right angle, Jaws cable clamp*, Thermoplastic backshell, Black finish.	Standard Gold Plated Contacts Small Cable Clamp Bulk Pack	TM2RBJ TM2RBJ-AU TM2RB TM2RBJ BULK
		1/4" (6.35mmø) Stereo Phone plug, Right angle, Jaws cable clamp*, Thermoplastic backshell, Satin finish.	Standard Gold Plated Contacts Small Cable Clamp Bulk Pack	TS3RJ TS3RJ-AU TS3R TS3RJ BULK
		1/4" (6.35mmø) Stereo Phone plug, Right angle, Jaws cable clamp*, Thermoplastic backshell, Black finish.	Standard Gold Plated Contacts Small Cable Clamp Bulk Pack	TS3RBJ TS3RBJ-AU TS3RB TS3RBJ BULK

\*NOTE: Refer to page 100 for Jaws cable clamp specifications applicable to right angle connectors.





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

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

**Part Number Breakdown: Page 99**  
**Specifications: Page 100**

US Patent No.8,162,697

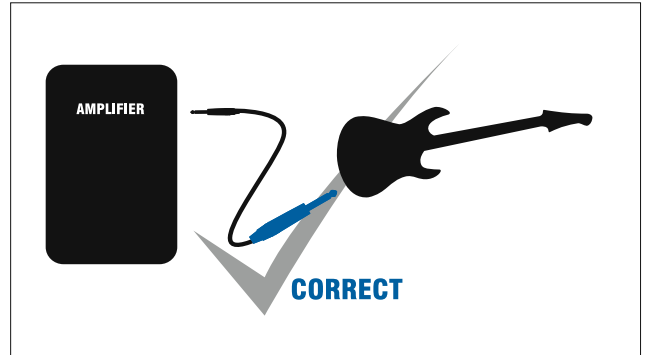
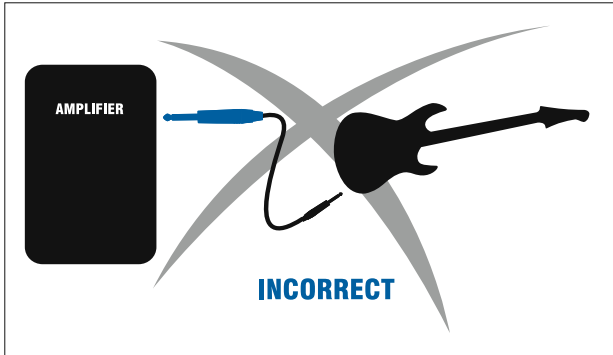
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			1/4" (6.35mmø) Switch Phone plug, Jaws cable clamp, Thermoplastic backshell, Satin finish	Standard Gold Plated Contacts Large Cable Clamp Bulk Pack	TM1P TM1P-AU TM1PJ TM1P BULK
			1/4" (6.35mmø) Switch Phone plug, Jaws cable clamp, Thermoplastic backshell, Black finish	Standard Gold Plated Contacts Large Cable Clamp Bulk Pack	TM1PB TM1PB-AU TM1PBJ TM1PB BULK
			1/4" (6.35mmø) Switch Phone plug, Right angle, Jaws cable clamp*, Thermoplastic backshell, Satin Finish	Standard Gold Plated Contacts Bulk Pack	TM1RJ* TM1RJ-AU* TM1RJ BULK*
			1/4" (6.35mmø) Switch Phone plug, Right angle, Jaws cable clamp*, Thermoplastic backshell, Black Finish	Standard Gold Plated Contacts Bulk Pack	TM1RBJ* TM1RBJ-AU* TM1RBJ BULK*

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

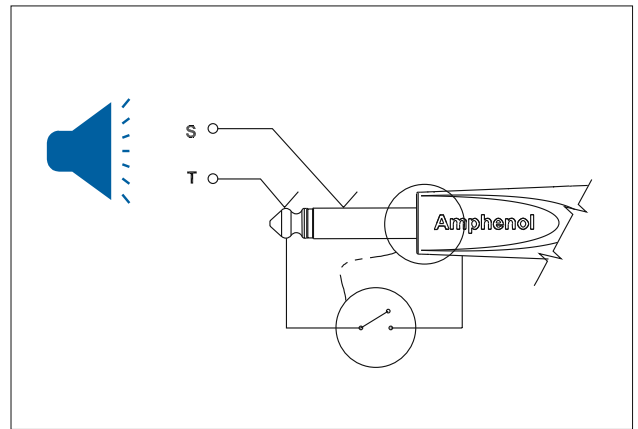
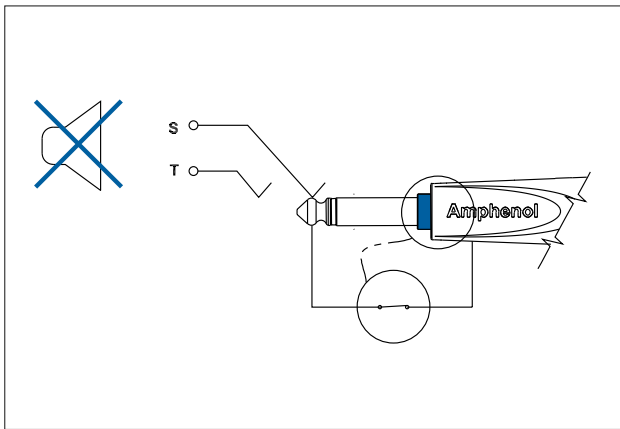
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## SwitchPlug - User Instruction

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



## SwitchPlug - Technology\*



\*US Patent No. 8,162,697




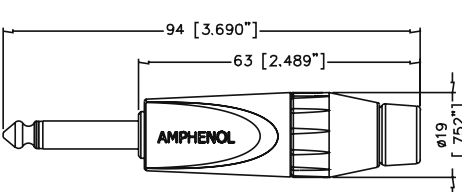

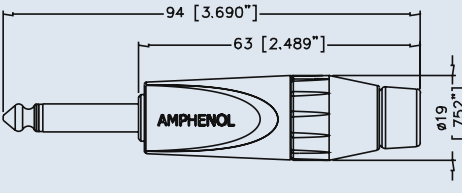

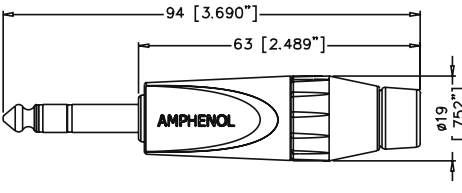

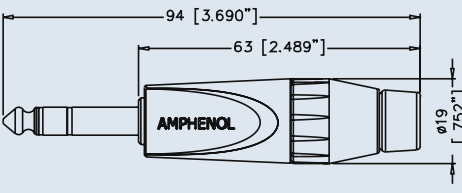


**Features:**

- 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 100

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		1/4" (6.35mm $\varnothing$ ) JUMBO Mono Phone plug, Thermoplastic back- shell, Satin finish.	Standard Gold Plated Contacts Bulk Pack	JM2P JM2P-AU JM2P BULK
		1/4" (6.35mm $\varnothing$ ) JUMBO Mono Phone plug, Thermoplastic back- shell, Black finish.	Standard Gold Plated Contacts Bulk Pack	JM2PB JM2PB-AU JM2PB BULK
		1/4" (6.35mm $\varnothing$ ) JUMBO Stereo Phone plug, Thermoplastic back- shell, Satin finish.	Standard Gold Plated Contacts Bulk Pack	JS3P JS3P-AU JS3P BULK
		1/4" (6.35mm $\varnothing$ ) JUMBO Stereo Phone plug, Thermoplastic back- shell, Black finish.	Standard Gold Plated Contacts Bulk Pack	JS3PB JS3PB-AU JS3PB BULK

NOTE: Contact factory for availability of metal backshells.

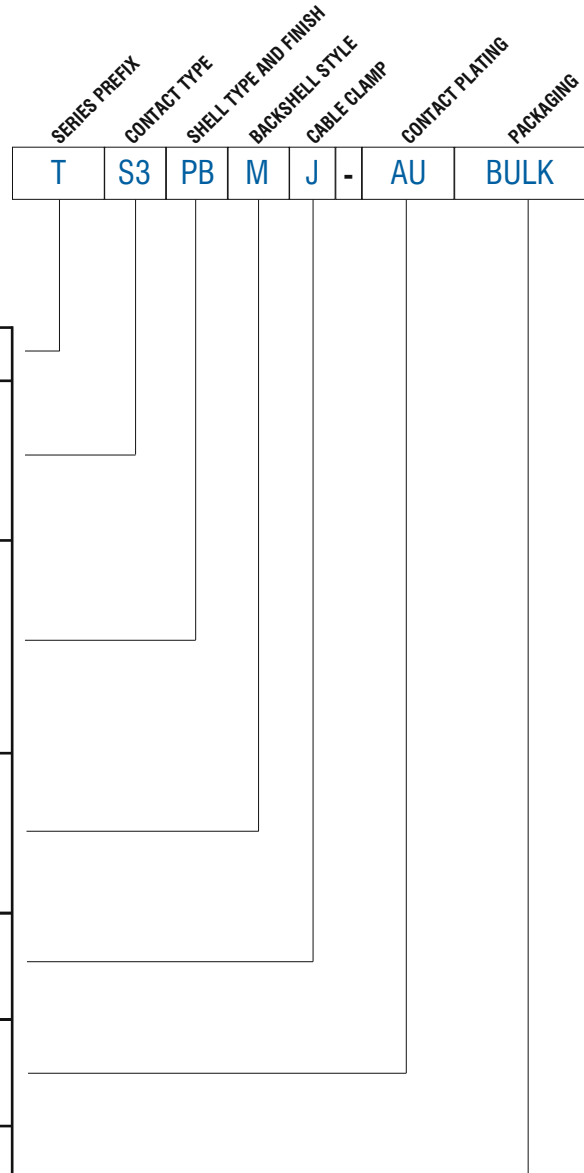


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## PART NUMBER BREAKDOWN

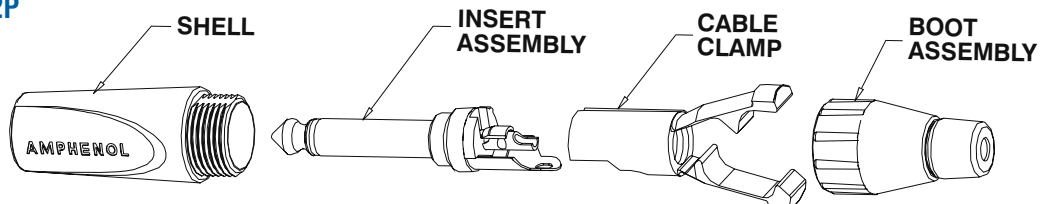
### T-SERIES (PRO RANGE)

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



<b>SERIES PREFIX</b>	T	=	Series Prefix
<b>CONTACT TYPE</b>	M1	=	Switch Plug
	M2	=	2 Pole (mono)
	S3	=	3 Pole, tip/ring/sleeve (stereo)
<b>SHELL TYPE AND FINISH</b>	P	=	Plug Satin Nickel
	PB	=	Plug Matt Black
	R	=	Right Angle Plug Satin Nickel
	RB	=	Right Angle Plug Matt Black
<b>BACKSHELL TYPE</b>	Blank	=	Plastic Nut
	M	=	Metal Nut - Black
	N	=	Metal Nut - Satin Nickel
<b>CABLE CLAMP</b>	Blank	=	Small Jaws
	J	=	Large Jaws
<b>CONTACT PLATING</b>	Blank	=	Nickel Plated Contacts (Standard)
	AU	=	Gold Plated Contacts
<b>PACKAGING</b>	Blank	=	Individual Bags
	BULK	=	Bulk Packed

### ISO VIEW OF TM2P





## 1/4" PHONE PLUG TECHNICAL DATA

		VALUE		
		Straight	Right Angle	Jumbo
<b>GENERAL CHARACTERISTICS</b>	Number of Contacts	3 Pole Tip Ring Sleeve (Stereo)		
	Termination	Solder		
	Max. Wire Gauge - Stranded Wire	2 Pole (Mono): AWG 16 - 1.5mm <sup>2</sup> 3 Pole (Stereo): AWG 18 - 1mm <sup>2</sup>		
	Flammability rating of insulating plastics	UL94V-0		
	Solderability, complies with	IEC 68-2-20		
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU		
<b>ELECTRICAL CHARACTERISTICS</b>	Current Carrying Capacity	10A (Depends on Mating Connector and Cable)		
	Typical Contact Resistance	Depends on Mating Connector		
	Insulation resistance (initial)	>2GΩ		
	After Damp Heat Test	≥1GΩ		
	Dielectric Withstand Voltage	2 Pole : 1.5 kV dc 3 Pole : 1 kV dc		
<b>CLIMATIC CHARACTERISTICS</b>	Protection Class	IP40		
	Operating Temperature	-25°C to +75°C (-13°F to + 167°F)		
<b>MECHANICAL CHARACTERISTICS</b>	Insertion and Withdrawal Force	≥10N - ≤30N		
	Weight <sup>1)</sup> - Thermoplastic Backshell	28g (0.061lb)		
	Weight <sup>1)</sup> - Metal Backshell	35g (0.077lb)		
	Typical Cable Retention Force	22kg to 44kg (50lb to 100lb) - Dependent on cable material and diameter.		
	Cable O.D. - Standard Jaw	3mm to 6mm (0.118" to 0.236")	3mm to 5.5mm (0.118" to 0.216")	NA
	Cable O.D. - Large Jaw	6mm to 7mm (0.236" to 0.275")	5.5mm to 6.5mm (0.216" to 0.255")	NA
	Cable O.D. - Jumbo	NA	NA	7.5mm to 10.5mm (0.295" to 0.413")
	Mechanical Operations	1000		
<b>MATERIALS</b>	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	UL94 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.



**Features:**

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

**Clamp Info:**




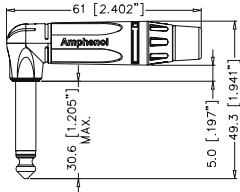

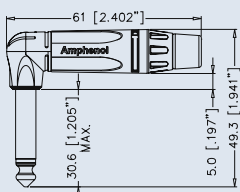

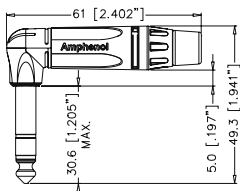

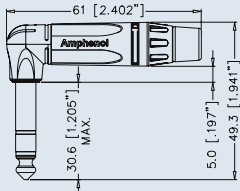
Cable O.D 6.5mm to 8mm (0.256" to 0.315")

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

**Specifications:** Page 112

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		1/4" (6.35mmø) Mono Phone plug, Diecast Shell, Satin finish, Flexible grommet.	Standard	ACPM-KN
			Gold Plated Contacts	ACPM-KN-AU
			Bulk Pack	ACPM-KN-BULK
		1/4" (6.35mmø) Mono Phone plug, Diecast Shell, Black finish, Flexible grommet.	Standard	ACPM-KB
			Gold Plated Contacts	ACPM-KB-AU
			Bulk Pack	ACPM-KB BULK
		1/4" (6.35mmø) Stereo Phone plug, Diecast Shell, Satin finish, Flexible grommet.	Standard	ACPS-KN
			Gold Plated Contacts	ACPS-KN-AU
			Bulk Pack	ACPS-KN BULK
		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



PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			1/4" (6.35mmø) Mono Phone plug, Right angle, Diecast Shell, Satin finish, Flexible grommet.	Standard	ACPM-TN
				Gold Contacts	ACPM-TN-AU
				Bulk Pack	ACPM-TN BULK
			1/4" (6.35mmø) Mono Phone plug, Right angle, Diecast Shell, Black finish, Flexible grommet.	Standard	ACPM-TB
				Gold Contacts	ACPM-TB-AU
				Bulk Pack	ACPM-TB BULK
			1/4" (6.35mmø) Stereo Phone plug, Right angle, Diecast Shell, Satin finish, Flexible grommet.	Standard	ACPS-TN
				Gold Contacts	ACPS-TN-AU
				Bulk Pack	ACPS-TN BULK
			1/4" (6.35mmø) Stereo Phone plug, Right angle, Diecast Shell, Black finish, Flexible grommet.	Standard	ACPS-TB
				Gold Contacts	ACPS-TB-AU
				Bulk Pack	ACPS-TB BULK





**Features:**

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

**Clamp Info:**







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

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

**Specifications:** Page 114

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
	<p>Dimensions in mm (inches)</p>	1/4" (6.35mm $\varnothing$ ) Mono Phone plug, Diecast Shell, Satin finish, Flexible grommet.	<a href="#">Standard</a> <a href="#">Gold Plated Contacts</a> <a href="#">Bulk Pack</a>	<a href="#">ACPM-GN</a> <a href="#">ACPM-GN-AU</a> <a href="#">ACPM-GN BULK</a>
		1/4" (6.35mm $\varnothing$ ) Mono Phone plug, Diecast Shell, Black finish, Flexible grommet.	<a href="#">Standard</a> <a href="#">Gold Plated Contacts</a> <a href="#">Bulk Pack</a>	<a href="#">ACPM-GB</a> <a href="#">ACPM-GB-AU</a> <a href="#">ACPM-GB BULK</a>
		1/4" (6.35mm $\varnothing$ ) Stereo Phone plug, Diecast Shell, Satin finish, Flexible grommet.	<a href="#">Standard</a> <a href="#">Gold Plated Contacts</a> <a href="#">Bulk Pack</a>	<a href="#">ACPS-GN</a> <a href="#">ACPS-GN-AU</a> <a href="#">ACPS-GN BULK</a>
		1/4" (6.35mm $\varnothing$ ) Stereo Phone plug, Diecast Shell, Black finish, Flexible grommet.	<a href="#">Standard</a> <a href="#">Gold Plated Contacts</a> <a href="#">Bulk Pack</a>	<a href="#">ACPS-GB</a> <a href="#">ACPS-GB-AU</a> <a href="#">ACPS-GB BULK</a>



PRODUCT - FIGURE	DRAWING	DESCRIPTION	TYPE	PART NUMBER
		<p>1/4" (6.35mmø) Mono Phone plug, Right angle, Diecast Shell, Satin finish, Flexible grommet.</p>	Standard	ACPM-RN
			Gold contacts	ACPM-RN-AU
			Bulk Pack	ACPM-RN BULK
		<p>1/4" (6.35mmø) Mono Phone plug, Right angle, Diecast Shell, Black finish, Flexible grommet.</p>	Standard	ACPM-RB
			Gold contacts	ACPM-RB-AU
			Bulk Pack	ACPM-RB BULK
		<p>1/4" (6.35mmø) Stereo Phone plug, Right angle, Diecast Shell, Satin finish, Flexible grommet.</p>	Standard	ACPS-RN
			Gold contacts	ACPS-RN-AU
			Bulk Pack	ACPS-RN BULK
		<p>1/4" (6.35mmø) Stereo Phone plug, Right angle, Diecast Shell, Black finish, Flexible grommet.</p>	Standard	ACPS-RB
			Gold contacts	ACPS-RB-AU
			Bulk Pack	ACPS-RB BULK

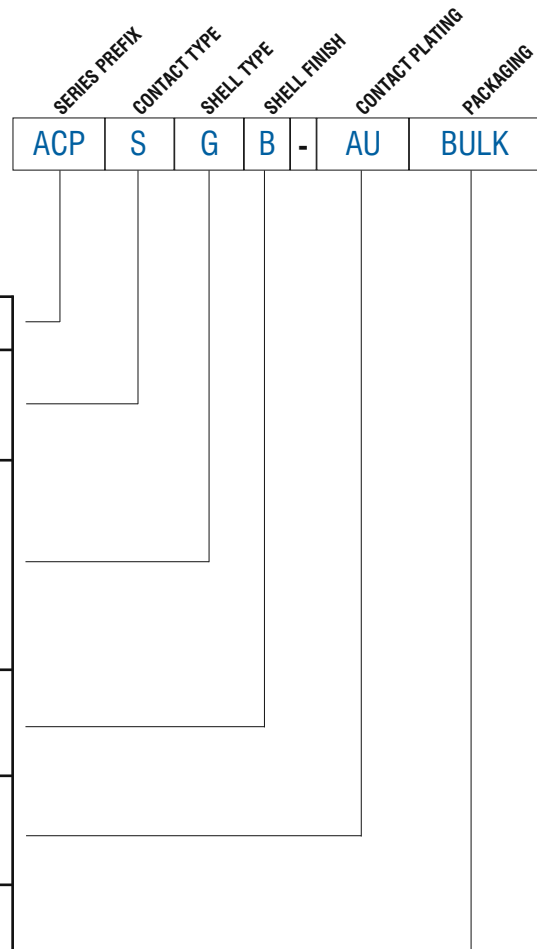


## PART NUMBER BREAKDOWN

M / M SERIES II (MUSICIAN RANGE)

E. G. **ACPM-GB-AU BULK**  
**ACP** (Series Prefix), **M**ale, **G**(Shell Type), **B**lack,  
 - **AU** (Gold Plated Contacts), **BULK** Packaged.

<b>SERIES PREFIX</b>	ACP = Series Prefix
<b>CONTACT TYPE</b>	M = 2 pole (Mono)
	S = 3 pole Tip/Ring/Sleeve (Stereo)
<b>SHELL TYPE</b>	G = M Series Straight
	K = M Series II Straight
	R = M Series Right Angle
	T = M Series II Right Angle
<b>SHELL FINISH</b>	N = Satin Nickel
	B = Matt Black
<b>CONTACT PLATING</b>	Blank = Nickel Plating
	AU = Gold Plated
<b>PACKAGING</b>	Blank = Individual Bags
	BULK = Bulk Packed





## 1/4" PHONE JACK CONNECTORS

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

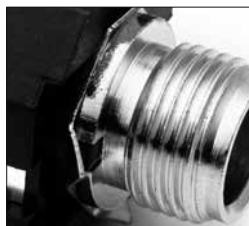
### Applications

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

### Features / Options – OEM RANGE Phone Jack

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

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



1/4" Gripper - Grounding points



1/4" Shielding Plate

### Ordering Codes

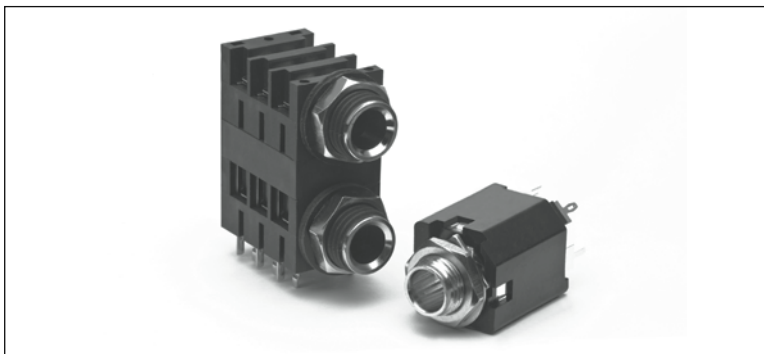
We have listed the more common ordering codes in each section. Please contact us if you need any further assistance.

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

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







**Features:**

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

**Schematic Chart: Page 112**

**Panel Cutouts: Page 111**

**PCB Footprints: Page 113**

**Specifications: Page 114**

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
<b>3.5MM PHONE JACKS</b>				
		3.5mm Jack, Horizontal PCB, Plastic housing, Metal entry bore	Mono	ACJM-NH35
			Stereo	ACJS-NH35
		3.5mm Jack, Vertical PCB mount, Needle eye contacts, Plastic housing, Metal entry bore	Refer to Schematic Chart on page 112	ACJM-NV35-2 ACJM-NV35-2S ACJS-NV35-3 ACJS-NV35-3S ACJS-NV35-5
		3.5mm Jack, Vertical PCB mount, Needle eye contacts, Plastic housing, Metal thread and entry bore	Refer to Schematic Chart on page 112	ACJM-MV35-2 ACJM-MV35-2S ACJS-MV35-3 ACJS-MV35-3S ACJS-MV35-5
		3.5mm / 1/4" (6.35mmØ) Dual Phone Jack, (Piggy-back), Horizontal PCB, Plastic housing, Metal nut and entry bore	Mono	ACJM-MHD985
			Stereo	ACJS-MHD985
		3.5mm / 1/4" (6.35mmØ) Dual Phone Jack, Vertical PCB mount, Needle eye contacts, Plastic housing, Metal nut and entry bore	Refer to Schematic Chart on page 112	ACJM-MVD985-2 ACJM-MVD985-2S ACJS-MVD985-3 ACJS-MVD985-3S ACJS-MVD985-5
<b>1/4" PHONE JACKS HORIZONTAL</b>				
		1/4" (6.35mmØ) Phone Jack, Horizontal Snap-fit PCB, Plastic housing, Half thread, Metal entry bore. Supplied without mounting hardware.	Mono	ACJM-HHDR
			Stereo	ACJS-HHDR


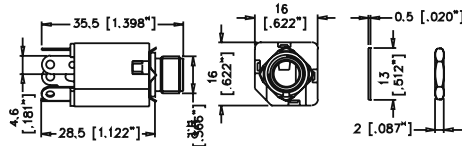


PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			1/4" (6.35mmø) Phone Jack, Horizontal Snap-fit PCB, Plastic housing, Metal nut and entry bore	Mono	ACJM-MHDR
				Stereo	ACJS-MHDR
			1/4" (6.35mmø) Phone Jack, Horizontal Snap-fit PCB, Plastic housing, Metal thread, nut, washer and entry bore	Mono	ACJM-MHDRM
				Stereo	ACJS-MHDRM
			1/4" (6.35mmø) Offset Jack, Horizontal PCB mount, Plastic housing and entry bore with Half thread. Supplied without mounting hardware.	Refer to Schematic Chart on page 112	ACJM-HHOP
					ACJS-HHOP
			1/4" (6.35mmø) Offset Jack, Horizontal PCB mount, Plastic housing and entry bore with Half thread. Supplied without mounting hardware.	Refer to Schematic Chart on page 112	ACJM-HHOP-1
					ACJS-HHOP-1
			1/4" (6.35mmø) Offset Jack, Horizontal PCB mount, Plastic housing, thread and entry bore	Mono - Plastic Nut	ACJM-PHOP
				Mono - Metal Nut	ACJM-MHOP
				Stereo - Plastic Nut	ACJS-PHOP
				Stereo - Metal Nut	ACJS-MHOP
			1/4" (6.35mmø) Offset Jack, Horizontal PCB mount, Plastic housing, thread and entry bore. Non-switching sleeve contact with separate grounding to panel.	Refer to Schematic Chart on Page 110	ACJM-PHOP-1
				PHOP - Denotes Plastic Nut	ACJM-MHOP-1
				MHOP - Denotes Metal Nut	ACJS-PHOP-1
					ACJS-MHOP-1
			1/4" (6.35mmø) Offset Jack, Horizontal PCB mount, Plastic housing, Metal thread and entry bore with Chassis ground connection	Mono - Metal Nut	ACJM-MHOM
				Stereo - Metal Nut	ACJS-MHOM
			1/4" (6.35mmø) Jack, Horizontal PCB mount, Plastic housing with metal insert	Mono - Plastic Nut	ACJM - PH
				Mono - Metal Nut	ACJM - MH

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			1/4" (6.35mmø) Jack, Horizontal PCB mount, Plastic housing with metal insert	Stereo - Plastic Nut	ACJS - PH
				Stereo - Metal Nut	ACJS - MH
			1/4" (6.35mmø) Jack, Horizontal Snap-fit PCB mount, Plastic housing with metal insert	Mono - Plastic Nut	ACJM-PHR
				Mono - Metal Nut	ACJM-MHR
				Stereo - Plastic Nut	ACJS-PHR
				Stereo - Metal Nut	ACJS-MHR
			1/4" (6.35mmø) Jack, Combination Horizontal PCB mount and Solder lug, Plastic housing with metal insert	Mono - Plastic Nut	ACJM-PC
				Mono - Metal Nut	ACJM-MC
				Stereo - Plastic Nut	ACJS-PC
				Stereo - Metal Nut	ACJS-MC
			1/4" (6.35mmø) Jack, Solder Lug, Plastic housing with metal insert	Mono - Plastic Nut	ACJM-PHS
				Mono - Metal Nut	ACJM-MHS
				Stereo - Plastic Nut	ACJS-PHS
				Stereo - Metal Nut	ACJS-MHS
			1/4" (6.35mmø) Jack, Solder Lug, Plastic housing and Bezel with threaded Metal nut.	Mono	ACJM-IHS
				Stereo	ACJS-IHS
			1/4" (6.35mmø) Jack, Horizontal PCB mount, Plastic housing and Bezel with threaded Metal nut.	Mono	ACJM-IH
				Stereo	ACJS-IH
<b>1/4" PHONE JACKS HORIZONTAL DUAL</b>			1/4" (6.35mmø) Dual Phone Jack (Compact Piggyback), Horizontal Snap-fit PCB, Plastic housing, Metal nut and entry bore	Mono	ACJM-MHDC*
				Stereo	ACJS-MHDC*
Stereo	ACJS-MHDCM				

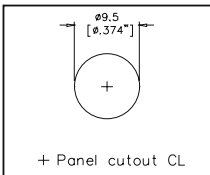


PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		1/4" (6.35mmØ) Dual Phone Jack (Piggyback) Horizontal Snap-fit PCB, Plastic housing, Metal nut and entry bore	Mono	ACJM-MHD*
			Stereo	ACJS-MHD*
		1/4" (6.35mmØ) Dual Phone Jack (Piggyback) Shielding plate, Horizontal Snap-fit PCB, Plastic housing, Metal nut and entry bore	Mono	ACJM-MHDE*
			Stereo	ACJS-MHDE*
		1/4" (6.35mmØ) Dual Phone Jack (Piggyback), Horizontal Snap-fit PCB, Plastic housing, Metal thread, washer and entry bore	Mono	ACJM-MHDM*
			Stereo	ACJS-MHDM*
		1/4" (6.35mmØ) Dual Phone Jack (Piggyback), Shielding plate Horizontal Snap-fit PCB, Plastic housing, Metal thread, nut and entry bore	Mono	ACJM-MHDEM*
			Stereo	ACJS-MHDEM*
<b>1/4" PHONE JACKS VERTICAL</b>		1/4" (6.35mmØ) Jack, Vertical PCB mount, Plastic housing, nut and entry bore	Refer to Schematic Chart on page 112	ACJM-PVB-2
	ACJM-PVB-2S			
	ACJS-PVB-3			
	ACJS-PVB-3S			
	ACJS-PVB-5			
		1/4" (6.35mmØ) Jack, Vertical PCB mount, Needle eye contacts, Plastic thread, Metal nut and insert	Refer to Schematic Chart on page 112	ACJM-MIV-2
				ACJM-MIV-2S
				ACJS-MIV-3
				ACJS-MIV-3S
				ACJS-MIV-5
		1/4" (6.35mmØ) Jack, Vertical PCB mount, Needle eye contacts, Star washer, Metal nut and insert	Refer to Schematic Chart on page 112	ACJM-MN-2
				ACJS-MN-3
				ACJM-MN-2S
				ACJS-MN-3S
				ACJS-MN-5
		1/4" (6.35mmØ) Jack, Vertical PCB mount, Metal nut and insert	Refer to Schematic Chart on page 112	ACJM-MV-2
				ACJM-MV-2S
				ACJS-MV-3
				ACJS-MV-3S
				ACJS-MV-5

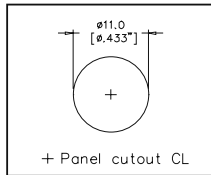
PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
	 <p>Dimensions in mm (inches)</p>	1/4" (6.35mm) Jack, Solder Lug, Metal nut and insert	Refer to Schematic Chart on Page 110	ACJM-MVS-2 ACJM-MVS-2S ACJS-MVS-3 ACJS-MVS-3S ACJS-MVS-5

## PANEL CUTOUTS

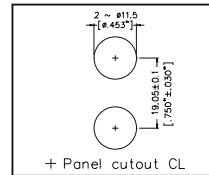
### -FRONT VIEW



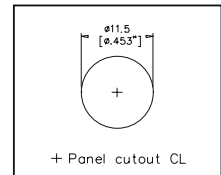
ACJM-MV  
ACJS-MV  
ACJM-MN-2  
ACJS-MN-3  
ACJM-MN-2S  
ACJS-MN-3S  
ACJM-MN-5  
ACJS-MN-5  
ACJM-MIV  
ACJS-MIV  
ACJM-MVS  
ACJS-MVS



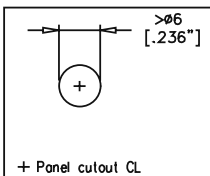
ACJM/S-PH  
ACJM/S-MH  
ACJM/S-PC  
ACJM/S-MC  
ACJM/S-PHR  
ACJM/S-MHR  
ACJM/S-PHS  
ACJM/S-MHS



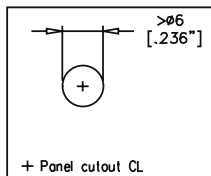
ACJM-MHD  
ACJS-MHD  
ACJM-MHDE  
ACJS-MHDE



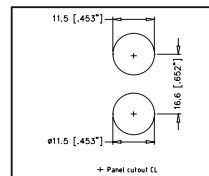
ACJM-MHDR  
ACJS-MHDR  
ACJS-HHDR



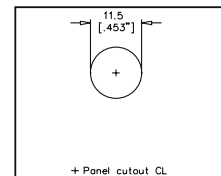
ACJM-NH35  
ACJS-NH35



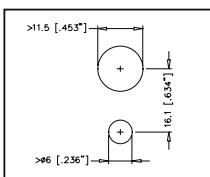
ACJM-NV35-2  
ACJM-NV35-2S  
ACJS-NV-35-3  
ACJS-NV-35-3S  
ACJS-NV-35-5  
ACJM-MV35-2  
ACJM-MV35-2S  
ACJS-MV-35-3  
ACJS-MV-35-3S  
ACJS-MV-35-5



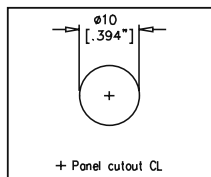
ACJS-MHDC  
ACJM-MHDC



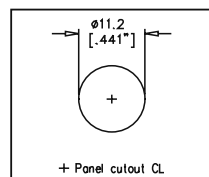
ACJS-IH  
ACJM-IH  
ACJS-IHS  
ACJM-IHS



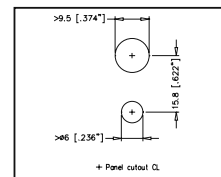
ACJM-MHD985  
ACJM-MHD985



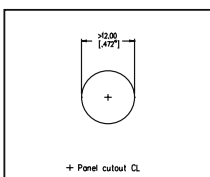
ACJM-MHOM  
ACJM-MHOM



ACJM-MHOP  
ACJS-MHOP  
ACJM-MHOP  
ACJS-MHOP-1  
ACJS-MHOP-1  
ACJM-MHOP-1  
ACJS-MHOP-1  
ACJM-MHOP-1  
ACJS-MHOP-1  
ACJM-MHOP-1  
ACJS-MHOP-1



ACJM-MVD985  
ACJM-MVD985



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



## SCHEMATIC CHART

PART NO.	ACJM-MV35-2 ACJM-MN-2 ACJM-NV35-2 ACJM-PVB-2 ACJM-MV-2 ACJM-MVS-2 ACJM-MIV-2	ACJM-MV35-2S ACJM-MN-2S ACJM-NV35-2S ACJM-PVB-2S ACJM-MV-2S ACJM-MVS-2S ACJM-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-MV-3S ACJS-MVS-3S ACJS-MIV-3S	ACJS-MV35-5 ACJS-MN-5 ACJS-NV35-5 ACJS-PVB-5 ACJS-MV-5 ACJS-MVS-5 ACJS-MIV-5
GENERAL SCHEMATIC					

PART NO.	ACJM-MVD985-2	ACJM-MVD985-2S	ACJS-MVD985-3	ACJS-MVD985-3S	ACJS-MVD985-5
SCHEMATIC					

PART NO.	ACJM-HHOP-1 ACJM-PHOP-1 ACJM-MHOP-1	ACJS-HHOP-1 ACJS-PHOP-1 ACJS-MHOP-1	ACJM-HHOP ACJM-PHOP ACJM-MHOP	ACJS-HHOP ACJS-PHOP ACJS-MHOP
GENERAL SCHEMATIC				









## 1/4" PLUGS TECHNICAL DATA

		VALUE
<b>GENERAL CHARACTERISTICS</b>	Number of Contacts	2 Pole (Mono) 3 Pole Tip Ring Sleeve (Stereo)
	Termination	Solder
	Max. Wire Gauge - Stranded Wire	2 Pole (Mono): AWG 16 ~ 1.5mm <sup>2</sup> 3 Pole (Stereo): AWG 18 ~ 1mm <sup>2</sup>
	Flammability rating of insulating plastics	UL94V-0
	Solderability, complies with	IEC 68-2-20
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU
<b>ELECTRICAL CHARACTERISTICS</b>	Current Carrying Capacity	10A (Depends on Mating Connector and Cable)
	Typical Contact Resistance	Depends on Mating Connector
	Insulation resistance (initial) After Damp Heat Test	> 2GΩ ≥ 1GΩ
	Dielectric Withstand Voltage	2 Pole : 1.5 kV dc 3 Pole : 1 kV dc
<b>CLIMATIC CHARACTERISTICS</b>	Protection Class	IP40
	Operating Temperature	-25°C to +70°C (-13°F to 158°F)
<b>MECHANICAL CHARACTERISTICS</b>	Insertion and Withdrawal Force	≥ 10N - ≤ 30N
	Mating Cycles	Min. of 1000 cycles without any physical damage
	Cable O.D. - M Series - M Series II	3mm to 6.5mm (0.118" to 0.256") 6.5mm to 8mm (0.256" to 0.315")
<b>MATERIALS</b>	Connector Shell Material	Diecast Zinc Alloy EZDA No.3
	Connector Shell Finish	Satin Nickel or Black Polyester
	Insulators	UL94 V-0 PBT Resin or Modified PPE Resin and fibreglass laminate
	Cable Bushing	Santoprene
	Contact Plating	Brass / Ni over Cu (Copper)

Rev 4 - 05/2014

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



## 1/4" JACKS TECHNICAL DATA

		VALUE
<b>GENERAL CHARACTERISTICS</b>	Number of Contacts	2 Pole (Mono) 3 Pole Tip Ring Sleeve (Stereo)
	Termination	Solder, PCB or Combo
	Flammability rating of insulating plastics	UL94V-0
	Solderability, complies with	IEC 68-2-20
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU
<b>ELECTRICAL CHARACTERISTICS</b>	Current Carrying Capacity	10A (Depends on Mating Connector and Cable)
	Typical Contact Resistance	≤10mΩ
	Insulation resistance (initial) After Damp Heat Test	>2GΩ ≥10 <sup>3</sup> Meg Ω
	Rated Voltage Test Voltage AC RMS: Dielectric Strength	34V 500V
<b>CLIMATIC CHARACTERISTICS</b>	Protection Class	IP40
	Operating Temperature	-25°C to +70°C (-13°F to 158°F)
<b>MECHANICAL CHARACTERISTICS</b>	Insertion and Withdrawal Force	≥10N - ≤30N
	Mating Cycles	Min. of 1000 cycles without any physical damage
	Weight - Straight - Right Angle	18g (0.039lb) 25g (0.055lb)
<b>MATERIALS</b>	Connector Shell Material	Nylon PA66 30% Glass Filled
	Insulators	UL94 V-0 PBT Resin or Modified PPE Resin and fiberglass laminate
	Metal Nut	Brass
	Plastic Nut	Nylon PA66 30% Glass Filled
	Washer	Fiber / Brass / Nylon PA66 30% Glass Filled
	Contact Plating	Tin - 4μm Min. over 2μm Min.Cu (Copper) Silver - 0.3μm Min. over 2μm Min.Cu (Copper) Nickel - 2μm Min. over 2μm Min.Cu (Copper) Gold Flash - 0.05μm Min. over 2μm Min.Cu (Copper)
	Contacts	Brass / Sn (Tin) over Cu (Copper)

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



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Largest Supplier of Electrical and Electronic Components

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