1/4" PHONE PLUGS

Amphenol has introduced 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. The 1/4" Phone plug jacks range has been widened with the stackable (piggy back) OEM series, saving board space and manufacturing costs. The RCA and Banana plugs complete our extensive range of entertainment interconnects.

Applications

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

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

- Mono or Stereo (TRS).
- Stylised shell design with Ergonomic grip
- Silver 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

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
- Gold or Nickel plated tip
- Gold, Nickel or Black finish
- Machined or Diecast shell

Features / Options – OEM RANGE 1/4" 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

Features / Options – RCA Plug

- Female or Male
- Red or Black strip for channel I.D.
- Gold plated finish
- Gold plated contacts

Features / Options – Banana Plug

- Red or Black for channel I.D.
- Gold or Nickel plated contacts

Jaws Cable Clamp Options for T-Series

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

Large Jaws cable clamp (Purple), Cable O.D 6mm to 8mm (0.236" to 0.314")

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.

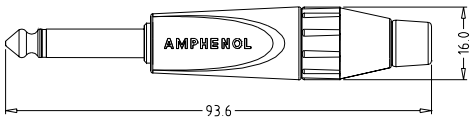
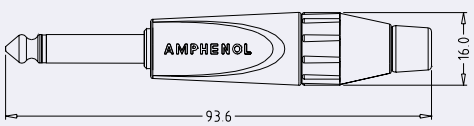
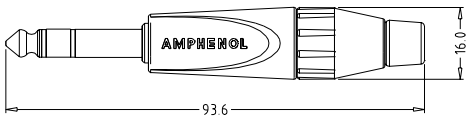
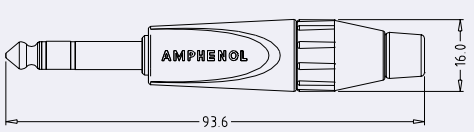
Amphenol

Features:

- Mono or Stereo (TRS).
- Stylised shell design with Ergonomic grip.
- Robust diecast shell in Satin nickel or Black finish.
- Silver 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 – by hand or portable termination tool part number T2870.

Options: Gold Contacts, Large or Small Jaws Cable Clamp, Black Shell, Metal Backshell / Boot, Bulk Pack.

Part Number Breakdown: Page 74 **Specifications: Page 73**

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		1/4" (6.35mmø) Mono Phone plug, Jaws cable clamp, Thermoplastic backshell, Satin finish.	Standard	TM2P
			Gold Plated Contacts	TM2P-AU
			Large Cable Clamp	TM2PJ
			Bulk Pack	TM2P-BULK
			Metal Boot (Satin)	TM2PN
		1/4" (6.35mmø) Mono Phone plug, Jaws cable clamp, Thermoplastic backshell, Black finish.	Standard	TM2PB
			Gold Plated Contacts	TM2PB-AU
			Large Cable Clamp	TM2PBJ
			Bulk Pack	TM2PB-BULK
			Metal Boot (Blk)	TM2PBM
		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
			Bulk Pack	TS3P-BULK
			Metal Boot (Satin)	TS3PN
		1/4" (6.35mmø) Stereo Phone plug, Jaws cable clamp, Thermoplastic backshell, Black finish.	Standard	TS3PB
			Gold Plated Contacts	TS3PB-AU
			Large Cable Clamp	TS3PBJ
			Bulk Pack	TS3PB-BULK
			Metal Boot (Blk)	TS3PBM

1/4" PHONE PLUG TECHNICAL DATA

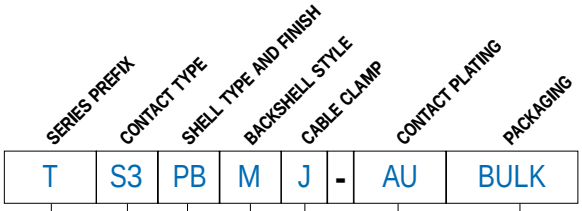
		VALUE
GENERAL CHARACTERISTICS	Nunber of Contacts	2 Pole (Mono) 3 Pole Tip Ring Sleeve (Stereo)
	Termination	Solder
	Max. Wire Gauge - Stranded Wire	2 Pole (Mono): AWG 16~1.5mm^2 3 Pole (Stereo): AWG 18~1mm^2
	Flammability rating of insulating plastics	UL94V-0
	Solderability, complies with	IEC 68-2-20
ELECTRICAL CHARACTERISTICS	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
CLIMATIC CHARACTERISTICS	Protection Class	IP40
	Operating Temperature	-20C to +70C
MECHANICAL CHARACTERISTICS	Insertion and Withdrawal Force	≥ 10N - ≤ 30N
	Weight [1] - Thermoplastic Backshell Weight [1] - Metal Backshell	28g (0.061lb) 35g (0.077lb)
	Typical Cable Retenton Force	22kg to 44kg (50lb to 100lb) - Dependent on cable material and diameter.
	Cable O.D. - Standard Jaw Cable O.D. - Large Jaw	3mm to 7mm (0.118" to 0.275") 6mm to 8mm (0.236" to 0.314")
MATERIALS	Connector Shell Material Shell Finish	Diecast Zinc Alloy EZDA No.3 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 $CuZn^{39}Pb^3$
	Finish	Satin Nickel or Black
	Cable Clamp	UL94 V-0 PBT Modified PPO Resin - Black
	Cable Bushing	Thermoplastic Polyurethane
	Contacts / Plating	Brass /Ag or Au over 2µm Ni

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

PART NUMBER BREAKDOWN

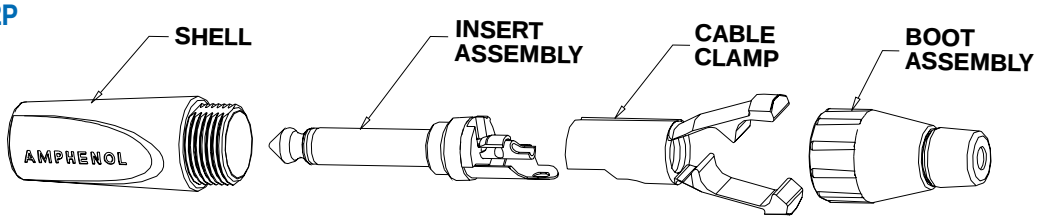
T-SERIES (PRO RANGE)

E. G . **TS3PBMJ-AU BULK**
T (Series Prefix), **S3**(Stereo), **P**lug **B**lack, **M**etal Nut (Black), **J** (Large Jaws),
- **AU** (Gold Plated Contacts), **Bulk** Packaged.



SERIES PREFIX	T	=	Series Prefix
CONTACT TYPE	M2	=	2 Pole (mono)
	S3	=	3 Pole, tip/ring/sleeve (stereo)
SHELL TYPE AND FINISH	P	=	Plug Satin Nickel
	PB	=	Plug Matt Black
BACKSHELL TYPE	Blank	=	Plastic Nut
	M	=	Metal Nut - Black
	N	=	Metal Nut - Satin Nickel
CABLE CLAMP	Blank	=	Standard Jaws 3.0-6.5 mm Cable OD (.118"Ø to .250"Ø)
	J	=	Large Jaws 6.5 - 8.0 mm Cable OD (.250"Ø to .314"Ø)
CONTACT PLATING	Blank	=	Standard Plating (Standard)
	AU	=	Gold Plated Contacts
PACKAGING	Blank	=	Individual Bags
	BULK	=	Bulk Packed

ISO VIEW OF TM2P

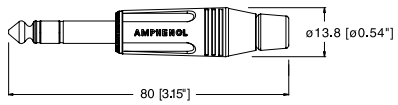
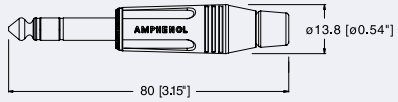
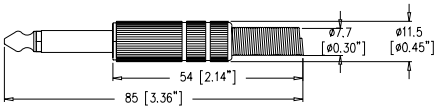
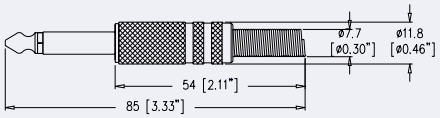
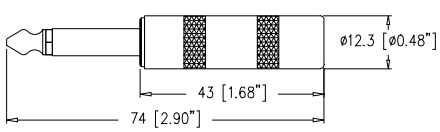
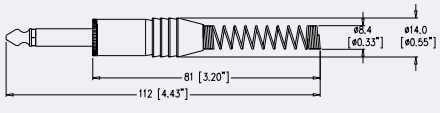


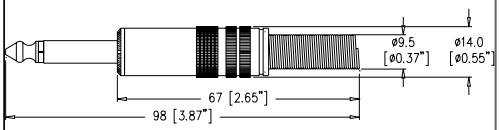
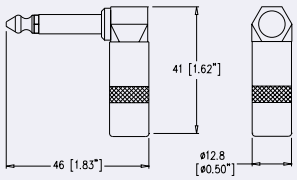
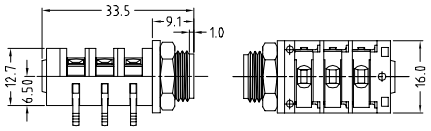
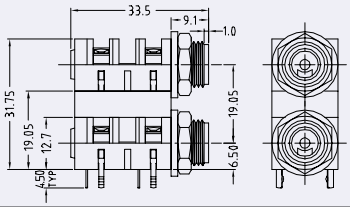
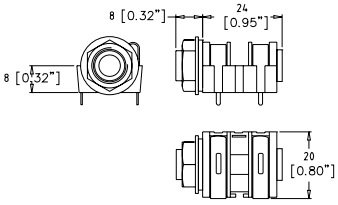
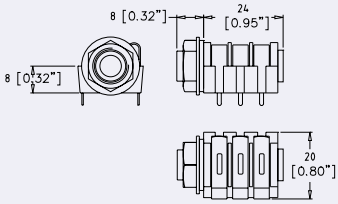
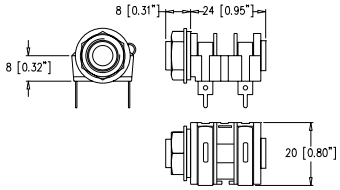
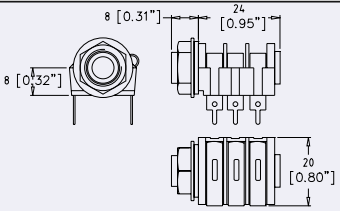
Amphenol

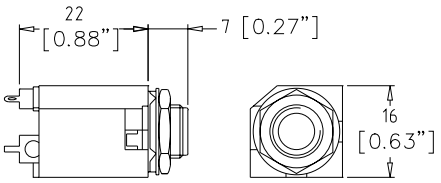
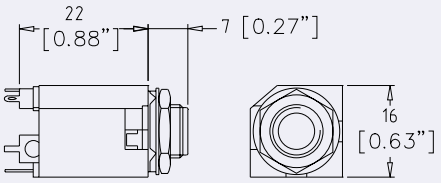
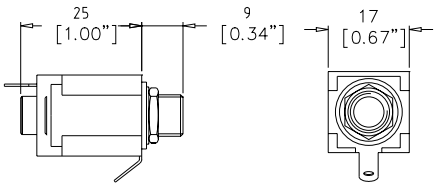
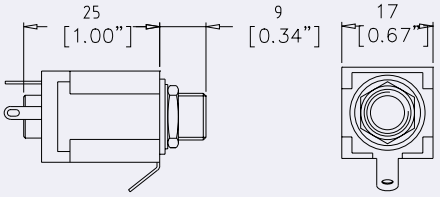
Features:

- Mono or Stereo (TRS).
- Stylish shell design.
- Robust diecast shell in Satin nickel or Black finish.
- Gold plated contact tip.
- Flexible grommet cable protection.
- Improved solderability.
- Precision machined contacts.
- Convenient bulk packaging.

Options: Black Shell.

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		1/4" (6.35mmø) Phone plug, Diecast Shell, Satin finish, Gold plated tip, Flexible grommet.	Mono	ACPM-GN-AU
			Stereo	ACPS-GN-AU
		1/4" (6.35mmø) Phone plug, Diecast Shell, Black finish, Gold plated tip, Flexible grommet.	Mono	ACPM-GB-AU
			Stereo	ACPS-GB-AU
		1/4" (6.35mmø) Phone plug, Machined compact shell, Nickel finish.	Mono	ACPM - CN
			Stereo	ACPS - CN
		1/4" (6.35mmø) Phone plug, Machined compact shell, Gold finish.	Mono	ACPM - CG - AU
			Stereo	ACPS - CG - AU
		1/4" (6.35mmø) Phone plug, Machined shell, Nickel finish.	Mono	ACPM - MN
			Stereo	ACPS - MN
		1/4" (6.35mmø) Phone plug, Diecast shell, Nickel finish, Gold plated tip.	Mono	ACPM- ZN- AU
			Stereo	ACPS- ZN - AU

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	TYPE	PART NUMBER
		1/4" (6.35mmø) Phone plug, Machined shell, Black finish. Gold plated tip and sleeve	Mono	ACPM - MB- AU
			Stereo	ACPS - MB- AU
		1/4" (6.35mmø) Phone plug, Right Angle, Machined shell, Nickel finish	Mono	ACPM - MRN
			Stereo	ACPS - MRN
		1/4" (6.35mmø) Phone Jack, Horizontal PCB mount, Plastic housing, Metal nut and entry bore	Mono	ACJM - MHDR
			Stereo	ACJS - MHDR
		1/4" (6.35mmø) Dual Phone Jack (Piggyback) Horizontal PCB mount, Plastic housing, Metal nut and entry bore	Mono	ACJM - MHD
			Stereo	ACJS - MHD
		1/4" (6.35mmø) Jack, Horizontal PCB mount, Plastic housing with metal insert	Mono - Plastic Nut	ACJM - PH
			Mono - Metal Nut	ACJM - MH
		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, Combination Horizontal PCB and Solder lug, Plastic housing	Mono – Plastic nut	ACJM - PC
			Mono – Metal nut	ACJM - MC
		1/4" (6.35mmø) Jack, Combination Horizontal PCB and Solder lug, Plastic housing	Stereo – Plastic nut	ACJS - PC
			Stereo – Metal nut	ACJS - MC

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	TYPE	PART NUMBER
		1/4" (6.35mmø) Jack, Vertical PCB mount, Metal nut and insert	Mono	ACJM-MV
		1/4" (6.35mmø) Jack, Vertical PCB mount, Metal nut and insert	Stereo	ACJS-MV
		1/4" (6.35mmø) Jack, Solder lugs, Metal nut and insert	Mono	ACJM-MS
		1/4" (6.35mmø) Jack, Solder lugs, Metal nut and insert	Stereo	ACJS-MS

©2003 Amphenol Australia Pty Ltd

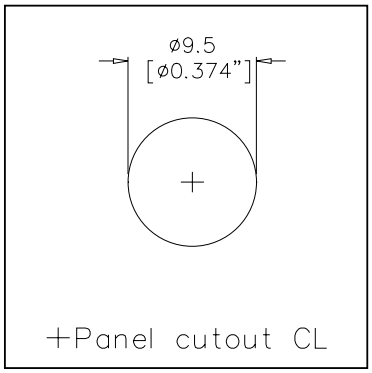
Subject to all applicable laws and regulations Amphenol Australia Pty Ltd reserves the right to change specifications of any product, system or service contained in this brochure without liability.

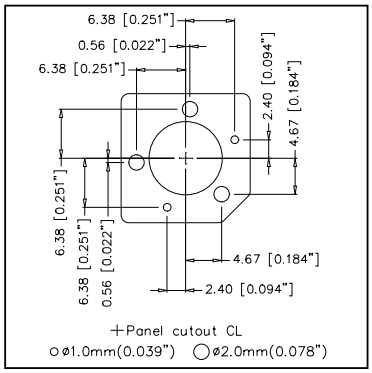
3/2003

PANEL CUTOUTS
-FRONT VIEW

PCB FOOTPRINT
- CONNECTOR SIDE OF PCB

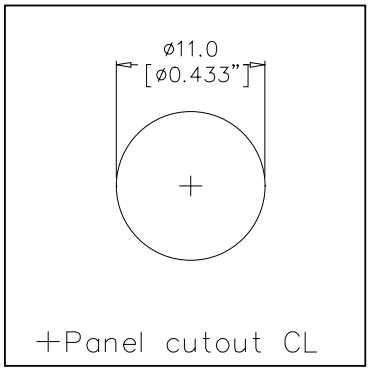
ACJM-MV
ACJS-MV
ACJM-MS
ACJS-MS

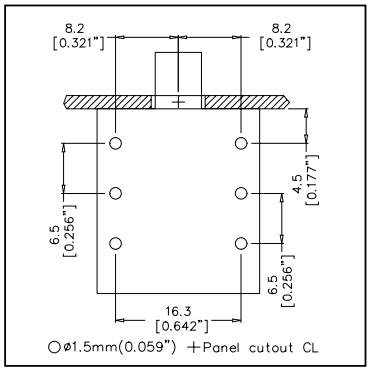




ACJM-MV
ACJS-MV

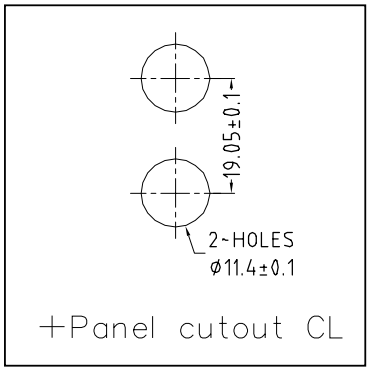
ACJM-PH
ACJM-MH
ACJS-PH
ACJS-MH
ACJM-PC
ACJM-MC
ACJS-PC
ACJS-MC

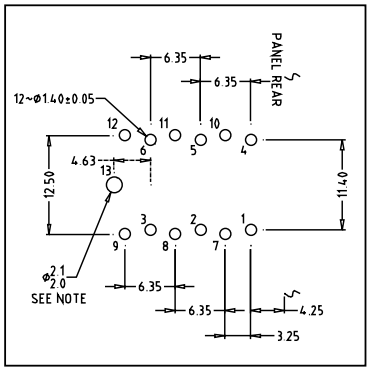




ACJM-PH
ACJM-MH
ACJS-PH
ACJS-MH
ACJM-PC
ACJM-MC
ACJS-PC
ACJS-MC

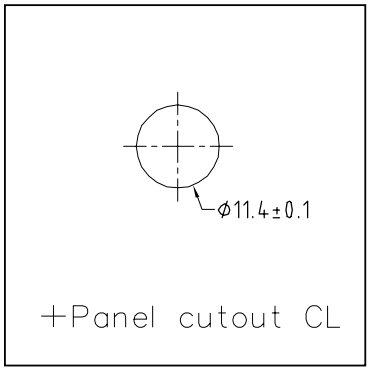
ACJM-MHD
ACJS-MHD

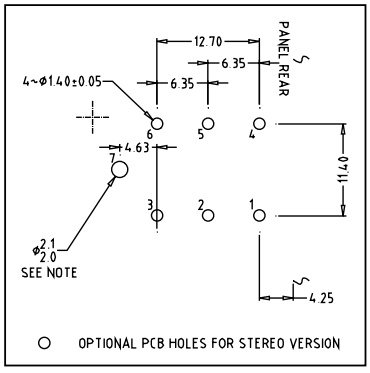




ACJM-MHD
ACJS-MHD

ACJM-MHDR
ACJS-MHDR





ACJM-MHDR
ACJS-MHDR