

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)
- · Stylised shell design with Ergonomic grip
- · 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
- · Coloured Grommet

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

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

- Red, Black, White, Yellow, Blue or Green shell colours
- · Stylish shell design
- Flexible grommet cable protection
- Gold Plated Contacts

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")

Ordering Codes

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

1/4" PHONE CONNECTORS

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 onroad 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.

Applicable Patents

US Patent No. 5,439,388

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



T-SERIES (PRO RANGE)

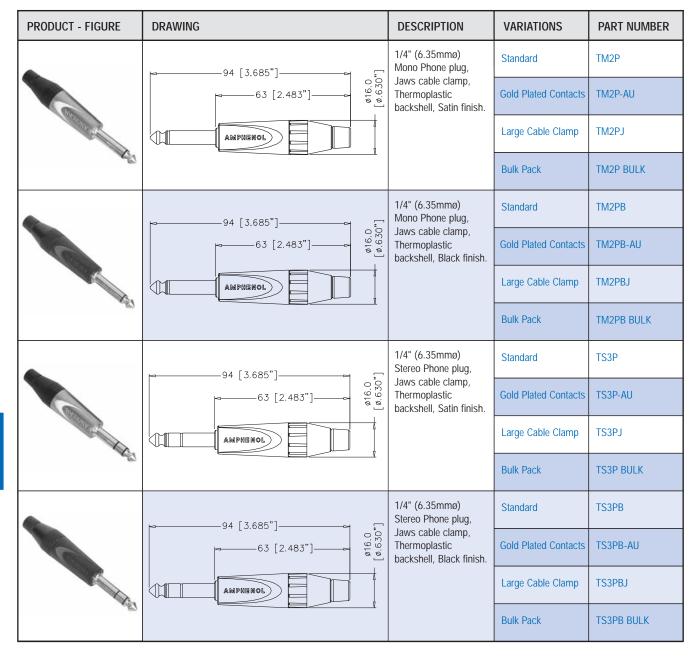


Features:

- Mono or Stereo (TRS).
- Stylised shell design with Ergonomic grip.
- · 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 70 Specifications: Page 71





T-SERIES (PRO RANGE)

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
	94 [3.685"]	1/4" (6.35mmø) Mono Phone plug, Jaws cable clamp, Metal backshell, Satin finish.	Standard	TM2PN
	94 [3.685"] 0.90 9.90 9.90 9.90 9.90 9.90 9.90 9.9		Gold Plated Contacts	TM2PN-AU
	AMPMEMOL		Large Cable Clamp	TM2PNJ
			Bulk Pack	TM2PN BULK
	94 [3.685"]	1/4" (6.35mmø) Mono Phone plug, Jaws cable clamp,	Standard	TM2PBM
	94 [3.685"] 0.90 9.90 9.90 9.90 9.90 9.90 9.90 9.9	Metal backshell, Black finish.	Gold Plated Contacts	TM2PBM-AU
	AMPMENOL		Large Cable Clamp	TM2PBMJ
			Bulk Pack	TM2PBM BULK
	04 [7.095"]	1/4" (6.35mmø) Stereo Phone plug, Jaws cable clamp, Metal backshell, Satin finish.	Standard	TS3PN
	94 [3.685"] 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.		Gold Plated Contacts	TS3PN-AU
	AMPMENOL		Large Cable Clamp	TS3PNJ
73			Bulk Pack	TS3PN BULK
	94 [3.685"]	1/4" (6.35mmø) Stereo Phone plug, Jaws cable clamp, Metal backshell, Black finish.	Standard	TS3PBM
	94 [3.685"]		Gold Plated Contacts	TS3PBM-AU
	AMPMEMOL		Large Cable Clamp	TS3PBMJ
- 12			Bulk Pack	TS3PBM BULK
	94 [3.685"] → □	1/4" (6.35mmø) Phone plug, Jaws cable clamp, Black Metal backshell, Satin finish shell.	Mono (Std. Clamp)	TM2PM
	94 [3.685"] 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.		Mono (Large Clamp)	TM2PMJ
	AMPHENOL		Stereo (Std. Clamp)	TS3PM
			Stereo (Large Clamp)	TS3PMJ



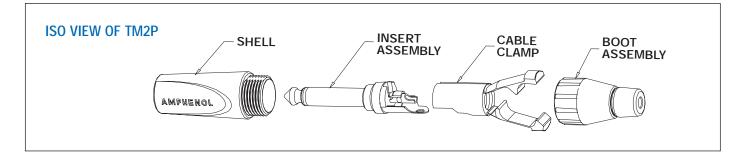


STANDARD DATA

PART NUMBER BREAKDOWN

T-SERIES (PRO RANGE)

SHEL TYPE AND FINISH BACKSHELLSTYLE CONTACT PLATING CARLE CLAMP E. G. TS3PBMJ-AU BULK **S**3 PB AU **BULK** T (Series Prefix), S3(Stereo), Plug Black, Metal Nut (Black), J (Large Jaws),
- AU (Gold Plated Contacts), Bulk Packaged. **SERIES PREFIX** Т Series Prefix CONTACT TYPE M2 2 Pole (mono) **S**3 3 Pole, tip/ring/sleeve (stereo) SHELL TYPE AND Р Plug Satin Nickel **FINISH** PB Plug Matt Black **BACKSHELL TYPE** Plastic Nut M Metal Nut - Black N Metal Nut - Satin Nickel CABLE CLAMP Blank Standard Jaws 3mm to 6mm Cable O.D. (0.118"Ø to 0.236"Ø) Large Jaws 6mm to 7.5mm Cable O.D.(0.236"Ø to 0.295"Ø) Nickel Plated Contacts (Standard) CONTACT PLATING Blank ΑU **Gold Plated Contacts PACKAGING** Blank Individual Bags BULK **Bulk Packed**





1/4" PHONE PLUG TECHNICAL DATA

		VALUE		
GENERAL CHARACTERISTICS	Nunber of Contacts	2 Pole (Mono)		
CHARACTERISTICS		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		
	Environmental	Complies with RoHS Directive 2002/95/EC		
ELECTRICAL CHARACTERISTICS	Current Carrying Capacity	10A (Depends on Mating Connector and Cable)		
CHARACIERISTICS	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 CHARACTERISTICS	Insertion and Withdrawal Force	≥ 10N - ≤ 30N		
CHARACIERISTICS	Weight ¹ - Thermoplastic Backshell	28g (0.061lb)		
	Weight ¹⁾ Metal Backshell	35g (0.077lb)		
	Typical Cable Retenton 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")		
	Cable O.D Large Jaw	6mm to 7.5mm (0.236" to 0.295")		
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 ³⁹ Pb ³		
	Cable Clamp	UL94 V-0 PBT Modified PPO Resin - Black		
	Cable Bushing	Thermoplastic Polyurethane		
	Contacts / Plating	Brass/Ni or Au over 2µm Ni		

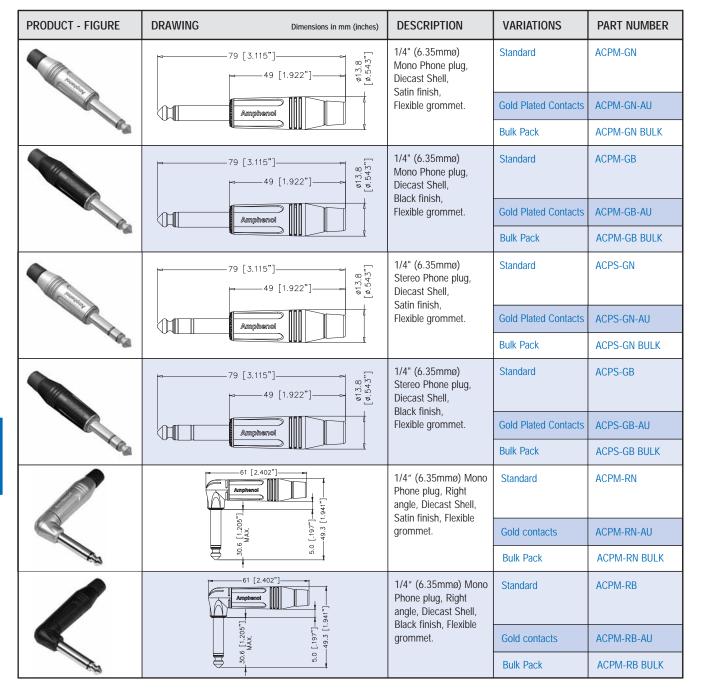
¹⁾ Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.

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.

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

Specifications: Pages 75-76



MUSICIAN/OEM RANGE

PRODUCT - FIGURE	DRAWING	Dim	ensions in mm (inches)	DESCRIPTION	TYPE	PART NUMBER
100	90 (2.402*) Authorised (4.12.00) (4.12.00) (5.0) (1.197*) (6.1) (1.197*) (7.197*) (7.197*)		1/4" (6.35mmø) Stereo Phone plug, Right angle, Diecast Shell, Satin finish, Flexible grommet.	Standard	ACPS-RN	
G.				Gold contacts	ACPS-RN-AU	
1			3	Bulk Pack	ACPS-RN BULK	
	61 [2.402*] Autophonot (1.97.] (2.407*) (2.407*) (3.407*) (4.19.7) (4.19.7) (4.19.7)		1/4" (6.35mmø) Stereo Phone plug, Right angle, Diecast	Standard	ACPS-RB	
			Shell, Black finish, Flexible grommet.	Gold contacts	ACPS-RB-AU	
The		30.6	ů.	3	Bulk Pack	ACPS-RB BULK
Ma	9.1	1/4" (6.35mmø) Phone Jack, Horizontal Snap-fit PCB, Plastic	Mono	ACJM - MHDR		
1500	4.50 [.1777] TYP TYP [.2567]			housing, Metal nut and entry bore	Stereo	ACJS - MHDR
Ma	Phone Jack (Piggyba	1	1/4" (6.35mmø) Dual Phone Jack (Piggyback) Horizontal Snap-fit PCB.	Mono	ACJM - MHD*	
5 15 PO		Plastic housing, Metal nut and entry bore	Stereo	ACJS - MHD*		
City.	3.1 3.5 (1.319°)	- 1.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1/4"(6.35mmø) Dual Phone Jack (Piggyback) Shielding plate, Horizontal	Mono	ACJM-MHDE*	
	450 1000 1		Snap-fit PCB, Plastic housing, Metal nut and entry bore	Stereo	ACJS-MHDE*	
A Co	8.0 [.315*] - 24.8 [.976*] - 24.8 [.		1/4" (6.35mmø) Jack, Horizontal PCB mount, Plastic housing with metal insert	Mono - Plastic Nut	ACJM - PH	
				Mono - Metal Nut	ACJM - MH	
FEE	8.0 [.315*] — 24.8 [.976*] — (.200) — (20.00	1/4" (6.35mmø) Jack, Horizontal PCB mount, Plastic housing with metal insert	Stereo - Plastic Nut	ACJS - PH	
				Stereo - Metal Nut	ACJS - MH	
	24.8 [.976*] 08 000 000 000 000 000 000 000	1	1/4" (6.35mmø)	Mono - Plastic Nut	ACJM-PHR	
		Jack, Horizontal Snap-fit PCB mount, Plastic housing with metal insert	Mono - Metal Nut	ACJM-MHR		
			Stereo - Plastic Nut	ACJS-PHR		
				Stereo - Metal Nut	ACJS-MHR	
60	80 [315"] 24.8 [.976"] 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1/4" (6.35mmø)	Mono - Plastic Nut	ACJM - PC	
		Jack, Combination Horizontal PCB and Solder lug, Plastic housing with metal insert	Mono - Metal Nut	ACJM - MC		
			Stereo - Plastic Nut	ACJS - PC		
			Stereo - Metal Nut	ACJS - MC		

^{*}This product protected by U.S. Patent No. 6,116,959 and British Patent No. 2,314,464

MUSICIAN/OEM RANGE

Amphenol

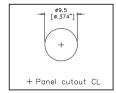
PRODUCT - FIGURE	DRAWING 1	Dimensions in mm (inches)	DESCRIPTION	TYPE	PART NUMBER
-	8.0 — 24.8 [.976"] 0.50		1/4" (6.35mmø) Jack, Solder Lug, Plastic housing with metal insert	Mono - Plastic Nut	ACJM-PHS
SER				Mono - Metal Nut	ACJM-MHS
1000				Stereo - Plastic Nut	ACJS-PHS
OUT -	7.50 [.295"] TYP			Stereo - Metal Nut	ACJS-MHS
	⊢ 24 [.945"] ⊢		1/4" (6.35mmø) Jack,	Refer circuit	ACJM-MN-2
	7 [.276"]	16.0	Vertical PCB mount, Needle eye contacts, Star washer, Metal nut and insert	schematic chart page 74	ACJS-MN-3
					ACJM-MN-2S
					ACJS-MN-3S
40.		Ť			ACJS-MN-5
	7 [.276"]		1/4" (6.35mmø) Jack, Vertical PCB mount, Metal nut and insert	Mono	ACJM-MV
		16.630"		Stereo	ACJS-MV

MUSICIAN/OEM RANGE

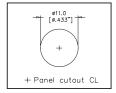
Amphenol

PANEL CUTOUTS

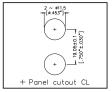
-FRONT VIEW



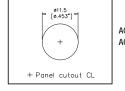
AC IM-MV ACJS-MV ACJM-MN-2 ACJS-MN-3 ACJM-MN-2S ACJS-MN-3S ACJS-MN-5



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



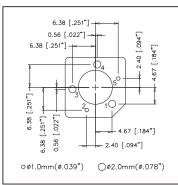
ACJM-MHD ACJS-MHD



ACJM-MHDR ACJS-MHDR

PCB FOOTPRINT

- CONNECTOR SIDE OF PCB

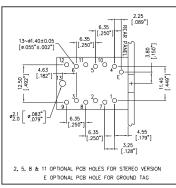


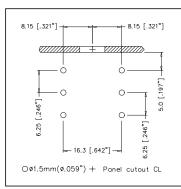
ACJM-MV ACJS-MV ACJM-MN-2 ACJS-MN-3 ACJM-MN-2S ACJS-MN-3S ACJS-MN-5

ACJM-MHD

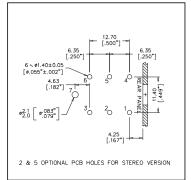
ACJS-MHD

ACJM-MHDE ACJS-MHDE





ACJM-PH ACJM-MH ACJS-PH ACJS-MH ACJM-PC ACJM-MC ACJS-PC ACJS-MC ACJM-PHR ACJM-MHR ACJS-PHR ACJS-MHR



ACJM-MHDR ACJS-MHDR

SCHEMATIC CHART

PART No.	ACJM-MN-2	ACJM-MN-2S	ACJS-MN-3	ACJS-MN-3S	ACJS-MN-5
SCHEMATIC	3 3 1	2 0 3 0 1	0 4	0 2 0 3 0 1	0 4 0 5 0 2 0 3 0 1



PLUG AND JACKS TECHNICAL DATA

		VALUE	
GENERAL CHARACTERISTICS	Nunber of Contacts	2 Pole (Mono)	
CHARACIERISTICS		3 Pole Tip Ring Sleeve (Stereo)	
	Termination	Solder, PCB or Combo	
	Max. Wire Gauge - Stranded Wire	2 Pole (Mono): AWG 16~1.5mm ²	
		3 Pole (Stereo): AWG 18~1mm²	
	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	Thermoplastic Polyurethane	
	Contacts / Plating (Plugs)	Brass / Ni over Cu (Copper)	
	Contacts / Plating (Jacks)	Brass / Sn (Tin) over Cu (Copper)	

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