Amphenol

ENTERTAINMENT INTERCONNECT CATALOGUE

Amphenol Australia Pty Ltd

Amphenol Australia Pty. Ltd.

Amphenol Australia's head office is based in Melbourne, Victoria and is the Sales, Marketing and Engineering centre of excellence for an extensive range of professional connector and cabling products. Satellite facilities of Amphenol Australia also exist in Colorado and Los Angeles, in the USA as well as Shenzhen, China.

Amphenol's global presence allows us to take full advantage of our numerous corporate resources and product portfolio to provide you with a vast offering and choice. Our extensive range is designed to meet the specific needs of the entertainment markets to make the selection of your interconnect partner an easy choice.

The Amphenol Audio international brand name was launched by Amphenol Australia in 2006 and represents the flag ship of one of the company's main core businesses and specialist product ranges. The company has been producing products for the pro-audio industry for over fifty years. Since the development of our XLR AC Series connectors, we have continued to provide our customers with exacting quality in an increasingly competitive environment.

Amphenol Australia's award winning IDC (Insulation Displacement Contact) XLR showcases the company's commitment to both Engineering Excellence and "Green Gigging" philosophies. It is the world's first XLR to use solderless technology for a pro-audio microphone cabling application. It allows for cable assemblies to be made, or repairs performed to assemblies in the field, without the need for solder, resins and fluxes or externally powered soldering stations.

Continuous improvement through ISO9001, a focus on environmental awareness and development of next generation industry leading products is our philosophy. As the entertainment industry moves into the future the emerging technologies from other industries has become more prevalent and more challenging. Amphenol Australia's global presence combined with its close technical relationships with other Amphenol sister divisions, each a specialist and leader in their own interconnect field, places it well to support innovation and meet this challenge head on.

The ability of Amphenol to provide a full range of design services required to support the customers applications design and modelling, applications engineering, fabrication, value-added assembly and testing, coupled with the largest interconnect offering on the market means that we can support all of your system level needs.

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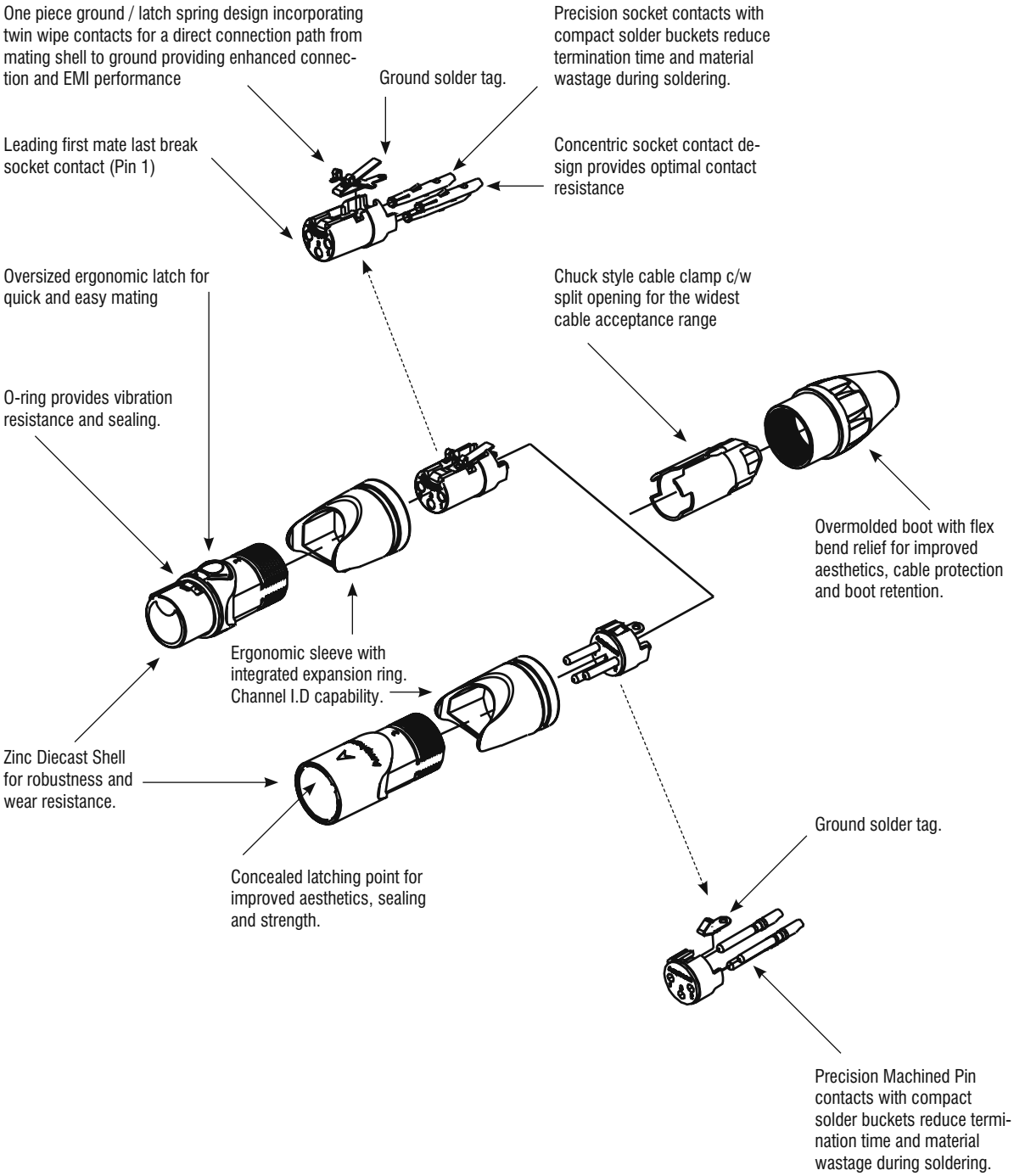
ISO VIEW OF AX SERIES XLR CABLE CONNECTOR



AX SERIES XLR CABLE CONNECTORS

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

Features

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

Options

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

Ordering Codes

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

Simple steps to guide you in using this catalogue

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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.

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Features:

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

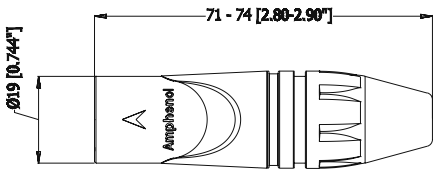
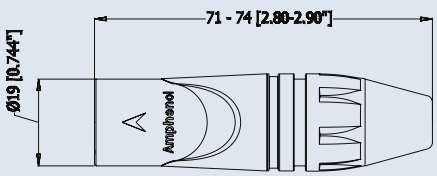
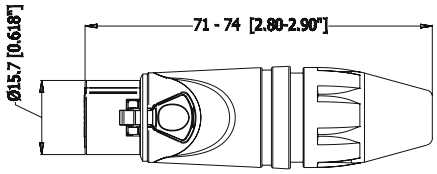
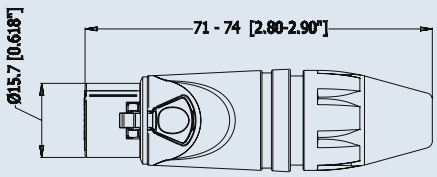
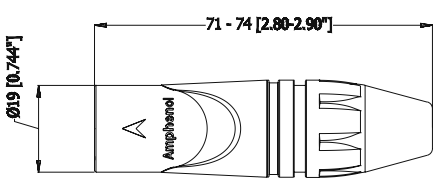
Options:

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

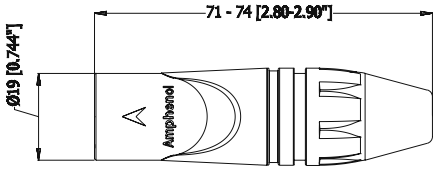
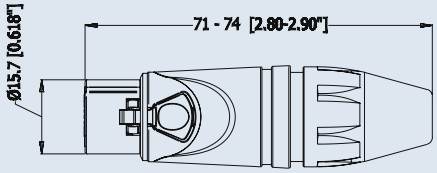
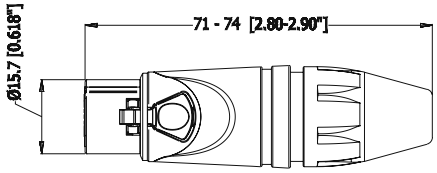
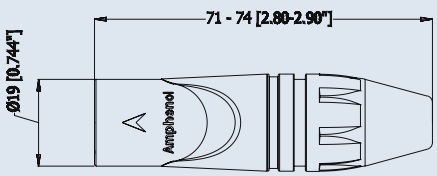
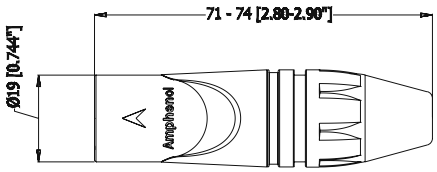
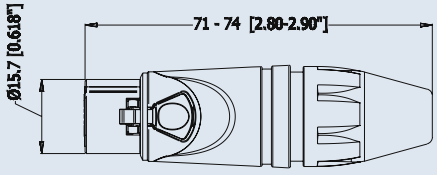
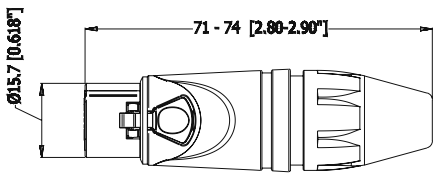
Part Number Breakdown: page 6

Specifications: page 7

Assembly Instructions: PI538*

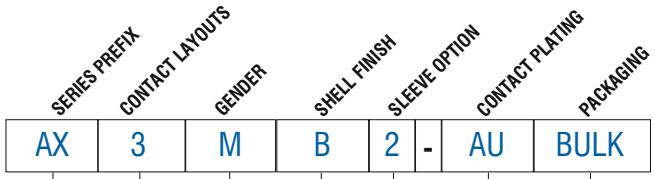
PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole male Machined contacts Nickel Finish	Standard	AX3M
			Gold Plated Contacts	AX3M-AU
			Bulk Pack	AX3M BULK
		XLR 3 pole male Machined contacts Black Finish	Standard	AX3MB
			Gold Plated Contacts	AX3MB-AU
			Bulk Pack	AX3MB BULK
		XLR 3 pole female Stamped contacts Nickel Finish	Standard	AX3F
			Gold Plated Contacts	AX3F-AU
			Bulk Pack	AX3F BULK
		XLR 3 pole female Stamped contacts Black Finish	Standard	AX3FB
			Gold Plated Contacts	AX3FB-AU
			Bulk Pack	AX3FB BULK
		XLR 4 pole male Machined contacts Nickel Finish	Standard	AX4M
			Gold Plated Contacts	AX4M-AU
			Bulk Pack	AX4M BULK

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

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 4 pole male Machined contacts Black Finish	Standard	AX4MB
			Gold Plated Contacts	AX4MB-AU
			Bulk Pack	AX4MB BULK
		XLR 4 pole female Machined contacts Nickel Finish	Standard	AX4F
			Gold Plated Contacts	AX4F-AU
			Bulk Pack	AX4F BULK
		XLR 4 pole female Machined contacts Black Finish	Standard	AX4FB
			Gold Plated Contacts	AX4FB-AU
			Bulk Pack	AX4FB BULK
		XLR 5 pole male Machined contacts Nickel Finish	Standard	AX5M
			Gold Plated Contacts	AX5M-AU
			Bulk Pack	AX5M BULK
		XLR 5 pole male Machined contacts Black Finish	Standard	AX5MB
			Gold Plated Contacts	AX5MB-AU
			Bulk Pack	AX5MB BULK
		XLR 5 pole female Machined contacts Nickel Finish	Standard	AX5F
			Gold Plated Contacts	AX5F-AU
			Bulk Pack	AX5F BULK
		XLR 5 pole female Machined contacts Black Finish	Standard	AX5FB
			Gold Plated Contacts	AX5FB-AU
			Bulk Pack	AX5FB BULK

PART NUMBER BREAKDOWN

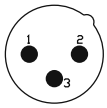
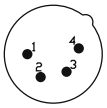
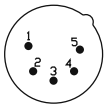
METAL SHELL TYPE - SOLDER



E. G . **AX3MB2-AU BULK**
AX (Series Prefix), **3** contacts, **M**ale, **B**lack Finish,
2 (Red Sleeve)- **AU** (Gold Plated Contacts), **Bulk** Packaged.

SERIES PREFIX	AX	=	Series Prefix
CONTACT LAYOUTS	3	=	3 Contacts
	4	=	4 Contacts
	5	=	5 Contacts
GENDER	F	=	Female Socket Contacts
	M	=	Male Pin Contacts
SHELL FINISH	Blank	=	Nickel Plated Finish
	B	=	Black Finish
SLEEVE 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 AX SERIES CABLE CONNECTORS

		VALUE		
GENERAL CHARACTERISTICS	Number of contacts	3	4	5
	AX 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	Complies with EU RoHS 2 Directive 2011/65/EU		
ELECTRICAL CHARACTERISTICS	Service Voltage RMS	133V [1)]		
	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		
	Operating Temperature	-25˚C to +75˚C (-13°F to -167°F)		
MECHANICAL CHARACTERISTICS	Insertion and Withdrawal force	≥10N - ≤30N		
	Weight [2)]	31g (0.068lb)	33g (0.073lb)	33g (0.073lb)
	Typical Cable retention force	22Kg to 44Kg (50lb 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)		

[1)] Not suitable for domestic applications above 50V

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

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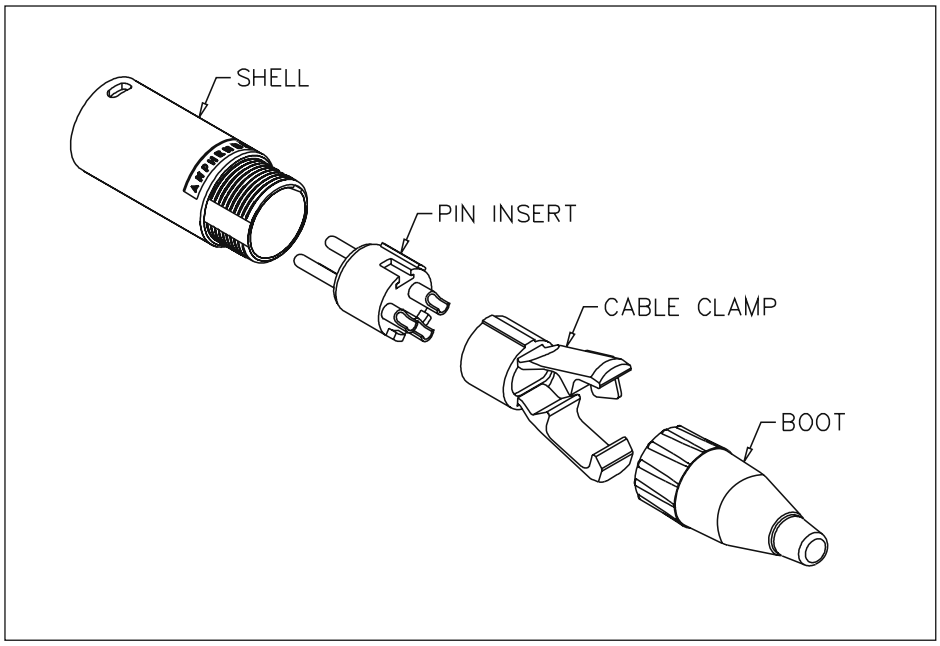
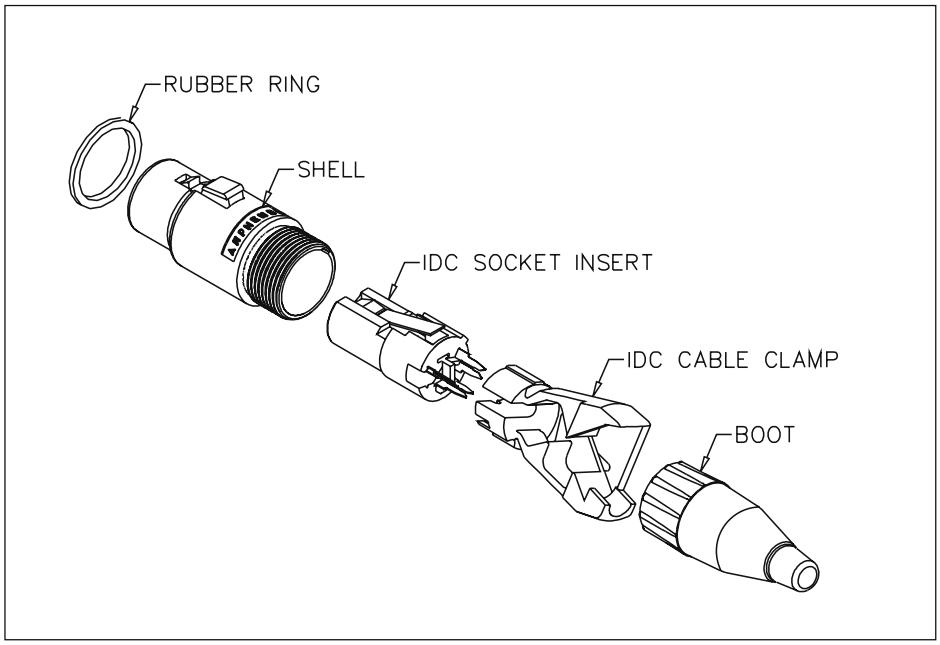
ISO VIEW OF AC3MM



ISO VIEW OF AC3FI



AMPHENOL AUSTRALIA WEBSITE

www.amphenolaudio.com

AMPHENOL WORLD HEADQUARTERS WEBSITE

www.amphenol.com

AC SERIES XLR CABLE CONNECTORS

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
- Precision machined contacts
- Cost effective stamped contacts on 3 pole

Options (Cont'd)

- Standard Jaws cable clamp, Cable O.D 3mm to 6.5mm (0.118" to 0.255")
- Large Jaws cable clamp, Cable O.D 6.5mm to 8mm (0.255" to 0.314")
- IDC Jaws cable clamp, Max. Cable O.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 O.D 3mm to 6.5mm (0.118" to 0.255")

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

Ordering Codes

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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.

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.

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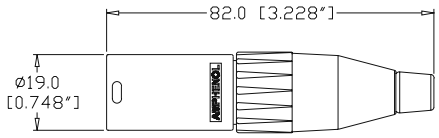
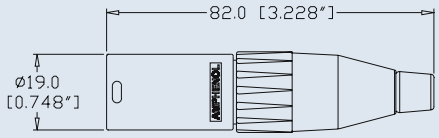
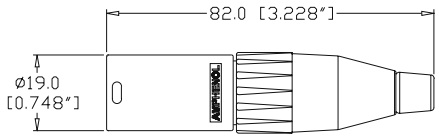
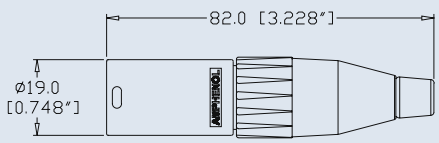
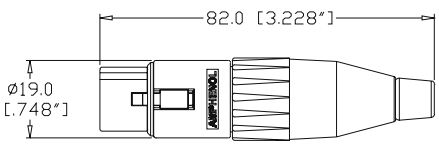
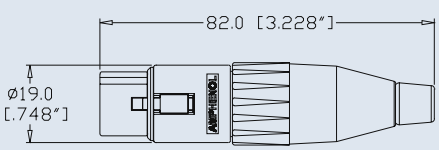
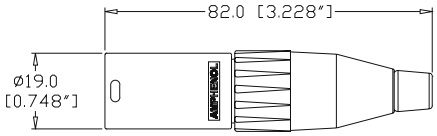
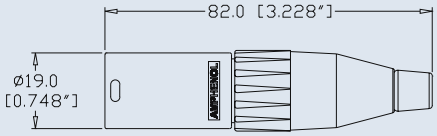
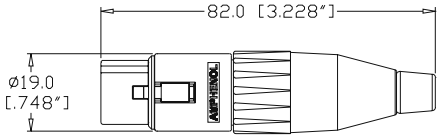
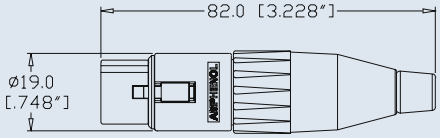
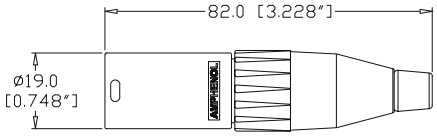
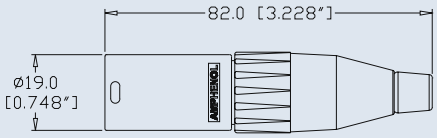
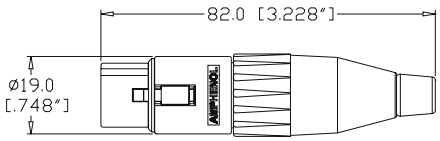
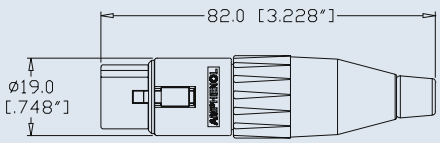
Features:
- Zinc Diecast Shell.
- Solder Bucket connections.
- "Jaws" Cable Retention System.
- Contact layouts in 3, 4, 5, 6A and 7.
- Precision machined or Stamped contacts.
- Leading first mate last break socket contact.
- Quick and easy assembly without screws – by hand or portable termination tool. (Part number T2860.)

Options: Stamped Contacts (3 contact only), Gold plated contacts, Large or Small Jaws Cable Clamp, Black Finish Shell, Bulk Pack, Coloured Boots / Backshells

Part Number Breakdown: page 13
Specifications: page 20

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole male, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC3MM
			Gold Plated Contacts	AC3MM-AU
			Large Cable Clamp	AC3MMJ
			Bulk Pack	AC3MM BULK
		XLR 3 pole male, Machined contacts, Black Finish, Jaws cable clamp	Standard	AC3MMB
			Gold Plated Contacts	AC3MMB-AU
			Large Cable Clamp	AC3MMBJ
			Bulk Pack	AC3MMB BULK
		XLR 3 pole male, Stamped contacts, Nickel Finish, Jaws cable clamp	Standard	AC3M
			Gold Plated Contacts	AC3M-AU
			Large Cable Clamp	AC3MJ
			Bulk Pack	AC3M BULK
		XLR 3 pole male, Stamped contacts, Black Finish, Jaws cable clamp	Standard	AC3MB
			Gold Plated Contacts	AC3MB-AU
			Large Cable Clamp	AC3MBJ
			Bulk Pack	AC3MB BULK
		XLR 3 pole female, Stamped contacts, Nickel Finish, Jaws cable clamp	Standard	AC3F
			Gold Plated Contacts	AC3F-AU
			Large Cable Clamp	AC3FJ
			Bulk Pack	AC3F BULK
		XLR 3 pole female, Stamped contacts, Black Finish, Jaws cable clamp	Standard	AC3FB
			Gold Plated Contacts	AC3FB-AU
			Large Cable Clamp	AC3FBJ
			Bulk Pack	AC3FB BULK

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 4 pole male, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC4M
			Gold Plated Contacts	AC4M-AU
			Large Cable Clamp	AC4MJ
			Bulk Pack	AC4M BULK
		XLR 4 pole male, Machined contacts, Black Finish, Jaws cable clamp	Standard	AC4MB
			Gold Plated Contacts	AC4MB-AU
			Large Cable Clamp	AC4MBJ
			Bulk Pack	AC4MB BULK
		XLR 4 pole female, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC4F
			Gold Plated Contacts	AC4F-AU
			Large Cable Clamp	AC4FJ
			Bulk Pack	AC4F BULK
		XLR 4 pole female, Machined contacts, Black Finish, Jaws cable clamp	Standard	AC4FB
			Gold Plated Contacts	AC4FB-AU
			Large Cable Clamp	AC4FBJ
			Bulk Pack	AC4FB BULK
		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, Black Finish, Jaws cable clamp	Standard	AC5MB
			Gold Plated Contacts	AC5MB-AU
			Large Cable Clamp	AC5MBJ
			Bulk Pack	AC5MB BULK
		XLR 5 pole female, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC5F
			Gold Plated Contacts	AC5F-AU
			Large Cable Clamp	AC5FJ
			Bulk Pack	AC5F BULK
		XLR 5 pole female, Machined contacts, Black Finish, Jaws cable clamp	Standard	AC5FB
			Gold Plated Contacts	AC5FB-AU
			Large Cable Clamp	AC5FBJ
			Bulk Pack	AC5FB BULK

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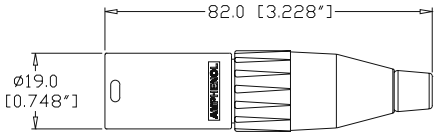
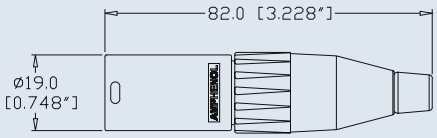
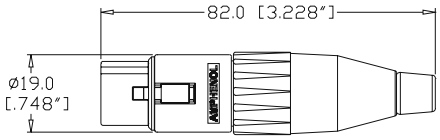
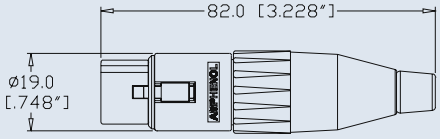
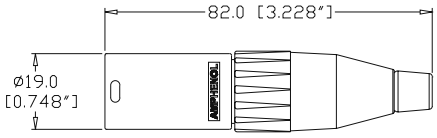
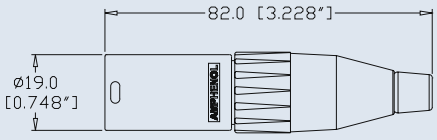
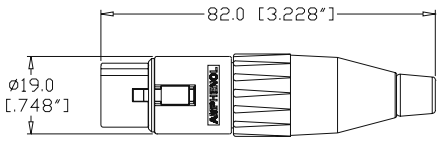
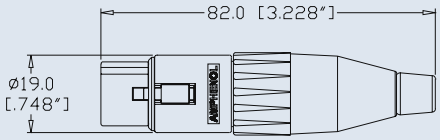
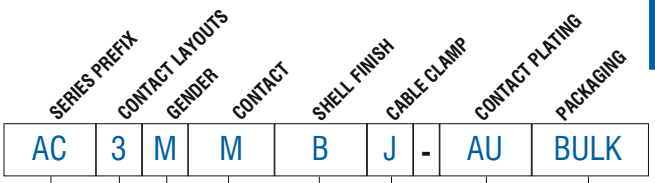
PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 6A pole male, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC6AM
			Gold Plated Contacts	AC6AM-AU
			Large Cable Clamp	AC6AMJ
			Bulk Pack	AC6AM BULK
		XLR 6A pole male, Machined contacts, Black Finish, Jaws cable clamp	Standard	AC6AMB
			Gold Plated Contacts	AC6AMB-AU
			Large Cable Clamp	AC6AMBJ
			Bulk Pack	AC6AMB BULK
		XLR 6A pole female, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC6AF
			Gold Plated Contacts	AC6AF-AU
			Large Cable Clamp	AC6AFJ
			Bulk Pack	AC6AF BULK
		XLR 6A pole female, Machined contacts, Black Finish, Jaws cable clamp	Standard	AC6AFB
			Gold Plated Contacts	AC6AFB-AU
			Large Cable Clamp	AC6AFBJ
			Bulk Pack	AC6AFB BULK
		XLR 7 pole male, Gold plated Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC7M
			Large Cable Clamp	AC7MJ
			Bulk Pack	AC7M BULK
		XLR 7 pole male, Gold plated Machined contacts, Black Finish, Jaws cable clamp	Standard	AC7MB
			Large Cable Clamp	AC7MBJ
			Bulk Pack	AC7MB BULK
		XLR 7 pole female, Gold plated Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC7F
			Large Cable Clamp	AC7FJ
			Bulk Pack	AC7F BULK
		XLR 7 pole female, Gold plated Machined contacts, Black Finish, Jaws cable clamp	Standard	AC7FB
			Large Cable Clamp	AC7FBJ
			Bulk Pack	AC7FB BULK

PART NUMBER BREAKDOWN

METAL SHELL TYPE - SOLDER



E. G . **AC3MMBJ-AU BULK**
AC (Series Prefix), **3** contacts, **M**ale, **M**achined Contacts, **B**lack Polyester Finish, **J** (Large Jaws),- **AU** (Gold Plated Contacts), **Bulk** Packaged.

SERIES PREFIX	AC	=	Series Prefix
CONTACT LAYOUTS	3	=	3 Contacts
	4	=	4 Contacts
	5	=	5 Contacts
	6A	=	6 Contacts
	7	=	7 Contacts
GENDER	F	=	Female Socket Contacts
	M	=	Male Pin Contacts
CONTACT[1]	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)
SHELL FINISH[2]	Blank	=	Nickel Plated Finish
	B	=	Black Polyester Finish
CABLE CLAMP	Blank	=	Standard Jaws 3 mm - 6.5 mm cable O.D. (0.118" to 0.255")
	J	=	Large Jaws 6.5mm - 8mm cable O.D. (0.255" to 0.314")
CONTACT PLATING[3]	Blank	=	Standard Plating (Silver or Tin - Refer to Standard Data.)
	AU	=	Gold Plated
PACKAGING	Blank	=	Individual Bags
	BULK	=	Bulk Packed

Note:

[1] 4 - 7 contact connectors have machined contacts and grounding as standard.

[2] Ground contacts are not supplied with the black polyester finish shell option.

[3] 7 Contact is gold plated as standard.

[4] All AC Series Connectors are available with optional colour coded boot / backshell. Refer to page 137 and simply add colour to end of part number. Example: AC3MM - RED

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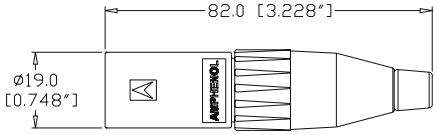
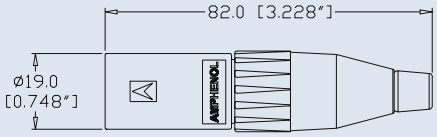
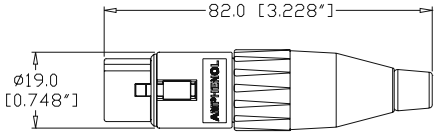
Features:

- 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.)

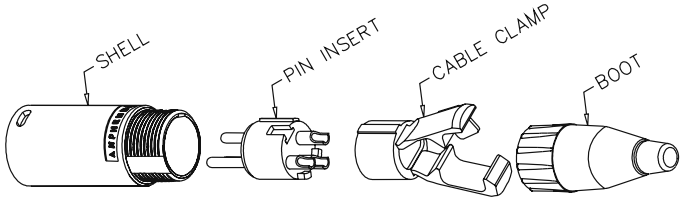
Options: Gold Plated Contacts, Stamped Contacts (3 Contact only), Bulk Pack, Coloured Boots / Backshells
3, 4, 5, 6A and 7 Contacts.

Specifications: page 20

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

ISO VIEW OF AC3MM



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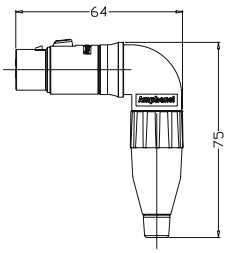
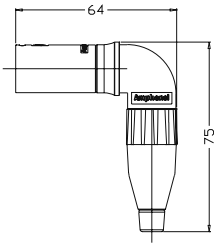
METAL SHELL TYPE
RIGHT ANGLE - SOLDER

Features:

- XLR 90º right angle
- Metal or Thermoplastic connector shell
- Thermoplastic 90º 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 **Assembly Tooling: page 137**

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
		XLR 90º right angle female, Metal shell, Nickel Finish, Jaws cable clamp	3 pole	AC3FR
			4 pole	AC4FR
			5 pole	AC5FR
			6A pole	AC6AFR
			7 pole	AC7FR
		XLR 90º right angle male, Metal shell, Nickel Finish, Jaws cable clamp	3 pole	AC3MMR
			4 pole	AC4MR
			5 pole	AC5MR
			6A pole	AC6AMR
			7 pole	AC7MR

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

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METAL SHELL TYPE - IDC (SOLDERLESS)

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.

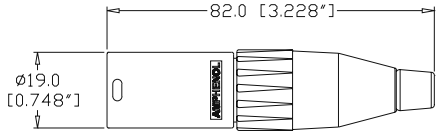
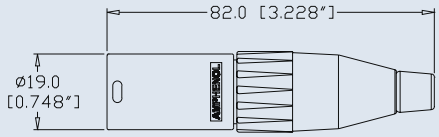
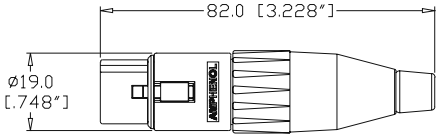
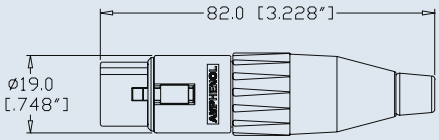
Recommended Cable Dimensions: page 21

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.

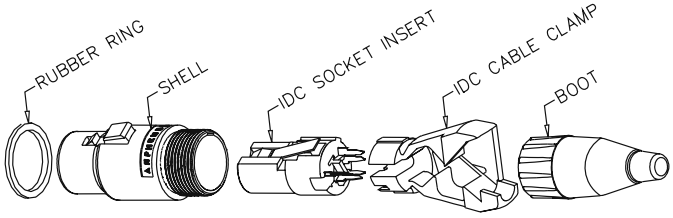
Options: Gold plated contacts, Black Finish Shell, Bulk Pack, Coloured Boots / Backshells.

Specifications: page 20
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
			Gold Plated Contacts	AC3MI-AU
			Bulk Pack	AC3MI BULK
		XLR 3 pole male, IDC contacts, Black Finish, IDC Jaws cable clamp	Standard	AC3MIB
			Gold Plated Contacts	AC3MIB-AU
			Bulk Pack	AC3MIB BULK
		XLR 3 pole female, IDC contacts, Nickel Finish, IDC Jaws cable clamp	Standard	AC3FI
			Gold Plated Contacts	AC3FI-AU
			Bulk Pack	AC3FI BULK
		XLR 3 pole female, IDC contacts, Black Finish, IDC Jaws cable clamp	Standard	AC3FIB
			Gold Plated Contacts	AC3FIB-AU
			Bulk Pack	AC3FIB BULK

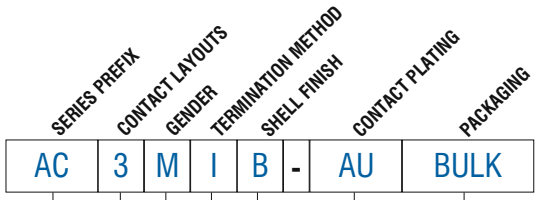
Note: Amphenol can not guarantee the termination performance unless the recommended cable dimensions listed on page 21 are followed.

ISO VIEW OF AC3FI



PART NUMBER BREAKDOWN

METAL SHELL TYPE - IDC



E. G . **AC3MIB-AU BULK**
AC (Series Prefix), **3** contacts, **M**ale, **I**DC Contacts, **B**lack Polyester Finish,
- **AU** (Gold Plated Contacts), **Bulk** Packaged.

SERIES PREFIX	AC	=	Series Prefix
CONTACT LAYOUT	3	=	3 Contact only
GENDER	F	=	Female Socket Contacts
	M	=	Male Pin Contacts
TERMINATION METHOD	I	=	IDC Contacts
SHELL FINISH	Blank	=	Nickel Plated Finish
	B	=	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

Amphenol

THERMOPLASTIC SHELL TYPE - IDC (SOLDERLESS)

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.

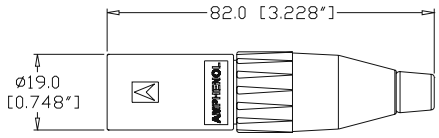
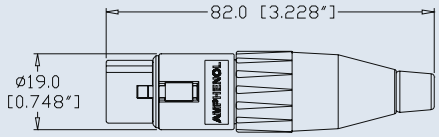
Recommended Cable Dimensions: page 21

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

Specifications: page 20

PRODUCT - FIGURE	DRAWING (Dimensions in mm (inches))	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole male, IDC contacts, Thermoplastic shell, IDC Jaws cable clamp	Standard	AC3MCPI
			Gold Plated Contacts	AC3MCPI-AU
			Bulk Pack	AC3MCPI BULK
		XLR 3 pole female, IDC contacts, Thermoplastic shell, IDC Jaws cable clamp	Standard	AC3FCPI
			Gold Plated Contacts	AC3FCPI-AU
			Bulk Pack	AC3FCPI BULK

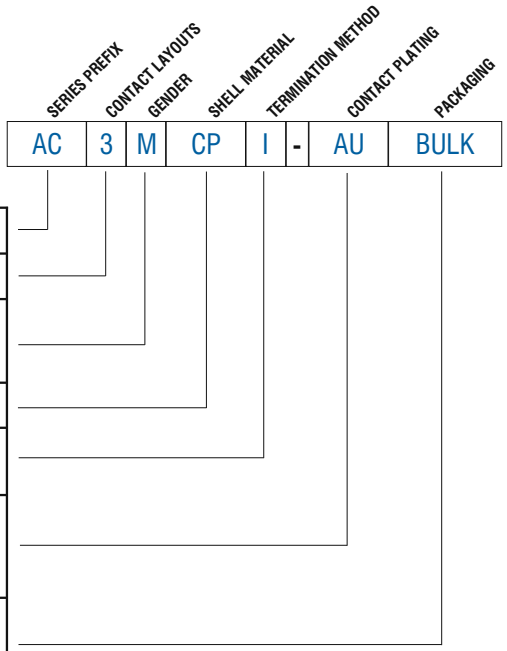
Note: Amphenol can not guarantee the termination performance unless the recommended cable dimensions listed on page 21 are followed.

PART NUMBER BREAKDOWN

IDC THERMOPLASTIC SHELL TYPE

E. G . **AC3MCPI-AU BULK**
AC (Series Prefix), **3** contacts, **M**ale, **CP** (Thermoplastic Shell), **I**DC Contacts, - **AU** (Gold Plated Contacts), **Bulk** Packaged.

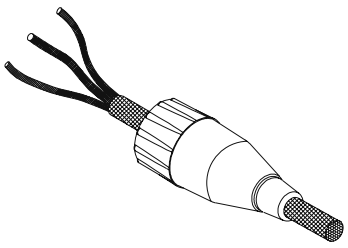
SERIES PREFIX	AC	=	Series Prefix
CONTACT LAYOUT	3	=	3 Contacts only
GENDER	F	=	Female Socket Contacts
	M	=	Male Pin Contacts
SHELL MATERIAL	CP	=	Thermoplastic Shell
TERMINATION METHOD	I	=	IDC Contacts
CONTACT PLATING	Blank	=	Standard Plating (Silver or Tin - Refer to Standard Data.)
	AU	=	Gold Plated
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: AC3MCPI - RED

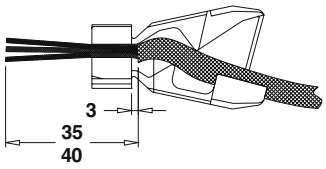
AC IDC SERIES CABLE ASSEMBLY INSTRUCTIONS

1



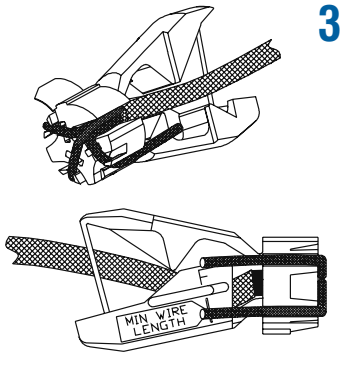
Push the cable through the boot assembly and strip the cable back 35 to 40 mm. Twist the shield wire.

2



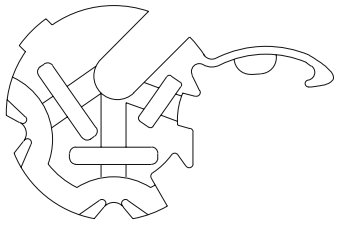
Fit the cable into the 'Jaws' cable clamp ensuring that the cable is pushed up to the neck of the clamp within 3mm.

3



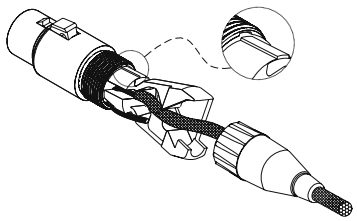
Pull back the conductors into their individual wire guidetracks. Note: Two spring fingers in the clamp will hold the conductors in position during subsequent operations. The ends of the two insulated wires must be on or past the minimum wire length mark.

4



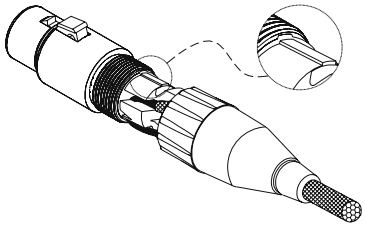
For ground protection the twisted shield wire is clipped in place with the ground protect flap.

5



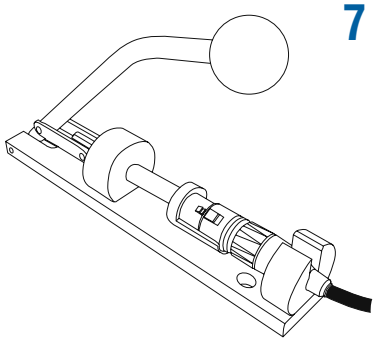
Trim back the shield wire, so there are no wires coming out of the flap and fit the 'Jaws' cable clamp into the shell assembly, ensuring the keyways are aligned.

6



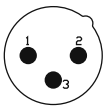
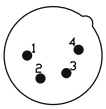
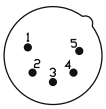
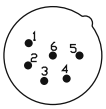
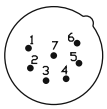
Close the cable clamp slightly and push the boot over the clamp ensuring the wires fit inside the boot.

7



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 CHARACTERISTICS	Number of contacts	3	4	5	6A	7
	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 with EU RoHS 2 Directive 2011/65/EU				
ELECTRICAL CHARACTERISTICS	Service Voltage RMS	133V [1]				
	Test Voltage AC 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 CHARACTERISTICS	Protection Class	IP40				
	Operating Temperature	-25˚C to +75˚C (-13°F to -167°F)				
MECHANICAL CHARACTERISTICS	Insertion and Withdrawal force	≥10N - ≤30N				
	Weight - Metal [2]	36g (0.080lb)	37g (0.081lb)	38g (0.083lb)	38g (0.083lb)	38g (0.083lb)
	Weight - Thermoplastic [2]	18g (0.039lb)	19g (0.041lb)	20g (0.044lb)	20g (0.044lb)	20g (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. Cable 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 cycles				

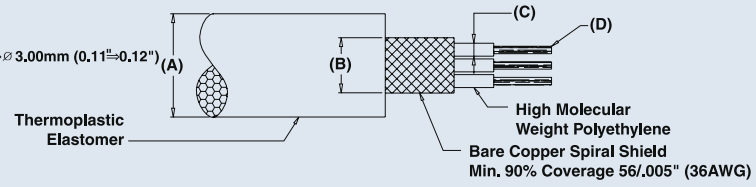
[1] Not suitable for domestic applications above 50V

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

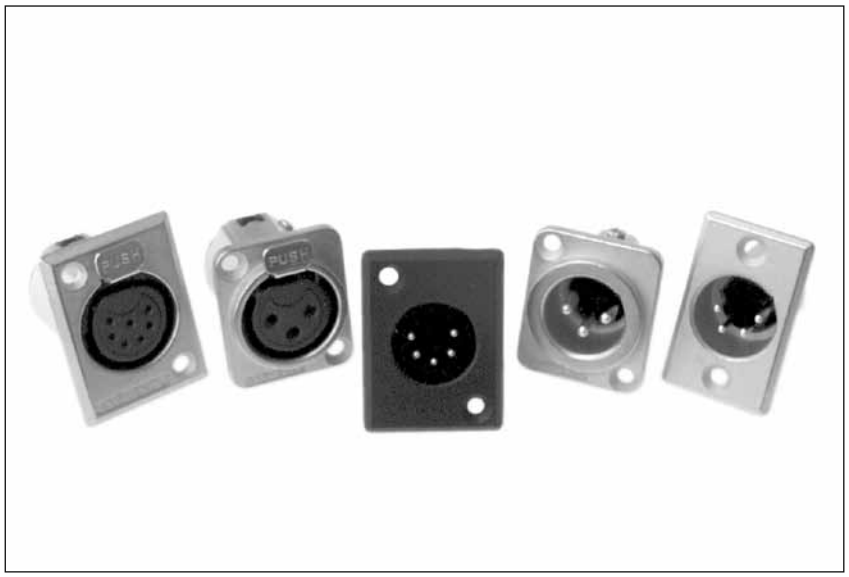
STANDARD DATA AC CABLE CONNECTORS

		DETAILS
MATERIALS	Connector shell - Metal	Diecast Zinc Alloy
	Shell finish	Satin nickel or Black polyester
	Connector shell - Thermoplastic	Thermoplastic, UL94V-0 Modified PPE Resin
	Shell finish	Black
	Insulators	UL94V-0 PBT Resin or Modified PPE Resin
	Boot / Backshell	UL94V-0 Modified PPE Resin or Machined Brass
	Finish	Black, other colours available - see page 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	Thermoplastic Polyurethane
	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 RECOMMENDED CABLE DIMENSIONS		

A - Cable O.D.: Max.Ø 5.85mm (0.23").
B - Bare Copper Spiral Shield OD Ø 2.75⇒Ø 3.00mm (0.11"⇒0.12")
C - ODØ1.30⇒Ø1.50mm (0.05"⇒0.06")
D - 16/.005" (24 AWG stranded wire)



Rev 4 - 03/2013



AC "Z" SERIES XLR METAL CHASSIS MOUNT CONNECTORS

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

Features

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

Options

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

Note: A ground tag is standard on all AC "Z" series connectors. Although the ground tag is intended for RFI shielding applications, Amphenol cannot guarantee its effectiveness in all cases.
The non-conductive Black polyester finish insulates the ground tag from the shell and should not be used in applications requiring ground contact to the shell.

Ordering Codes

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

Simple steps to guide you in using this catalogue

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

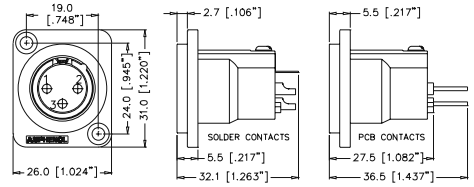
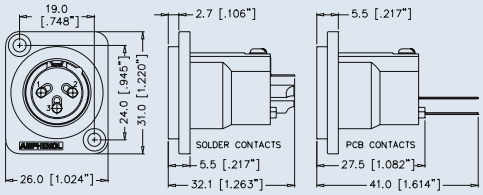
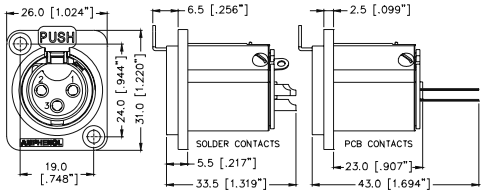
Amphenol

METAL D TYPE FLANGE - SOLDER AND PCB

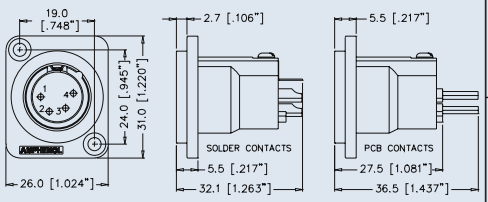
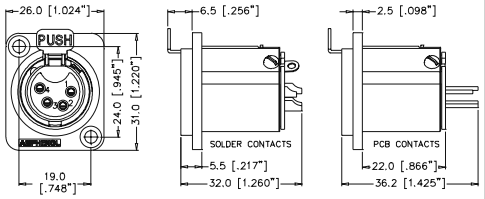
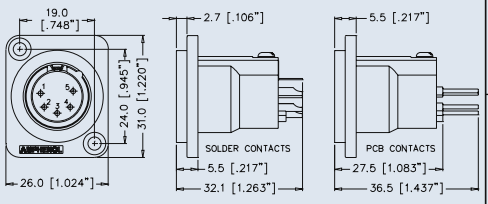
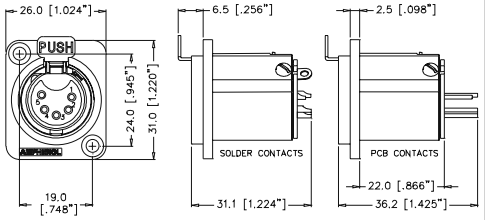
Features:
- Zinc Diecast Shell.
- D size housing can be front or rear mounted using the same panel cutout.
- Solder Bucket connections.
- Vertical PCB mounting (not available in 4 contact female).
- Precision machined or Stamped contacts (3 pin only).
- Leading first mate last break socket contact.
-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

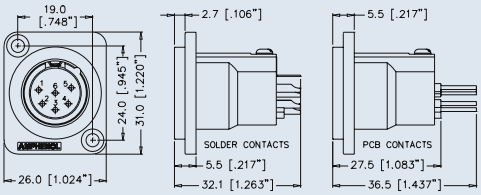
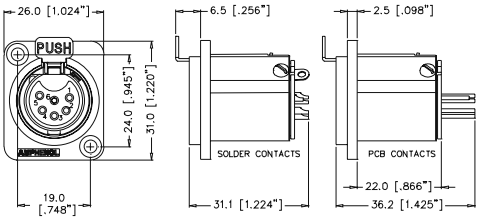
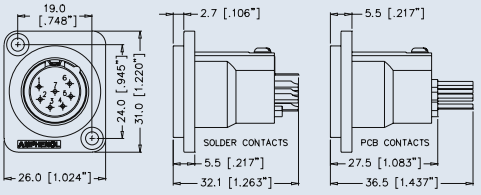
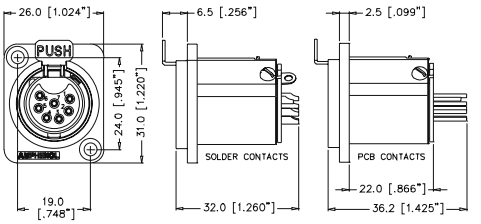
Options: Stamped contacts (3 contact only), Gold plated contacts, Vertical PCB contacts, Black finish, Non-Latching (Female only), Bulk Pack.

Part Number Breakdown: page 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, Machined contacts, Nickel Finish	Standard	AC3MMDZ
			Gold Plated Contacts	AC3MMDZ-AU
			Vertical PCB	AC3MMDZV
			Bulk Pack	AC3MMDZ BULK
		XLR 3 pole male, D Flange, Machined contacts, Black Finish	Standard	AC3MMDZB
			Gold Plated Contacts	AC3MMDZB-AU
			Vertical PCB	AC3MMDZVB
			Bulk Pack	AC3MMDZB BULK
		XLR 3 pole male, D Flange, Stamped contacts, Nickel Finish	Standard	AC3MDZ
			Gold Plated Contacts	AC3MDZ-AU
			Vertical PCB	AC3MDZV
			Bulk Pack	AC3MDZ BULK
		XLR 3 pole male, D Flange, Stamped contacts, Black Finish	Standard	AC3MDZB
			Gold Plated Contacts	AC3MDZB-AU
			Vertical PCB	AC3MDZVB
			Bulk Pack	AC3MDZB BULK
		XLR 3 pole female, D Flange, Stamped contacts, Nickel Finish	Standard	AC3FDZ
			Gold Plated Contacts	AC3FDZ-AU
			Vertical PCB	AC3FDZV
			Bulk Pack	AC3FDZ BULK
		XLR 3 pole female, D Flange, Stamped contacts, Black Finish	Standard	AC3FDZB
			Gold Plated Contacts	AC3FDZB-AU
			Vertical PCB	AC3FDZVB
			Bulk Pack	AC3FDZB BULK

Amphenol

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 4 pole male, D Flange, Machined contacts, Nickel Finish	Standard	AC4MDZ
			Gold Plated Contacts	AC4MDZ-AU
			Vertical PCB	AC4MDZV
			Bulk Pack	AC4MDZ BULK
		XLR 4 pole male, D Flange, Machined contacts, Black Finish	Standard	AC4MDZB
			Gold Plated Contacts	AC4MDZB-AU
			Vertical PCB	AC4MDZVB
			Bulk Pack	AC4MDZB BULK
		XLR 4 pole female, D Flange, Machined contacts, Nickel Finish	Standard	AC4FDZ
			Gold Plated Contacts	AC4FDZ-AU
			Vertical PCB	AC4FDZV
			Bulk Pack	AC4FDZ BULK
		XLR 4 pole female, D Flange, Machined contacts, Black Finish	Standard	AC4FDZB
			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
			Vertical PCB	AC5MDZV
			Bulk Pack	AC5MDZ BULK
		XLR 5 pole male, D Flange, Machined contacts, Black Finish	Standard	AC5MDZB
			Gold Plated Contacts	AC5MDZB-AU
			Vertical PCB	AC5MDZVB
			Bulk Pack	AC5MDZB BULK
		XLR 5 pole female, D Flange, Machined contacts, Nickel Finish	Standard	AC5FDZ
			Gold Plated Contacts	AC5FDZ-AU
			Vertical PCB	AC5FDZV
			Bulk Pack	AC5FDZ BULK
		XLR 5 pole female, D Flange, Machined contacts, Black Finish	Standard	AC5FDZB
			Gold Plated Contacts	AC5FDZB-AU
			Vertical PCB	AC5FDZVB
			Bulk Pack	AC5FDZB BULK

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 6A pole male, D Flange, Machined contacts, Nickel Finish	Standard	AC6AMDZ
			Gold Plated Contacts	AC6AMDZ-AU
			Vertical PCB	AC6AMDZV
			Bulk Pack	AC6AMDZ BULK
		XLR 6A pole male, D Flange, Machined contacts, Black Finish	Standard	AC6AMDZB
			Gold Plated Contacts	AC6AMDZB-AU
			Vertical PCB	AC6AMDZVB
			Bulk Pack	AC6AMDZB BULK
		XLR 6A pole female, D Flange, Machined contacts, Nickel Finish	Standard	AC6AFDZ
			Gold Plated Contacts	AC6AFDZ-AU
			Vertical PCB	AC6AFDZV
			Bulk Pack	AC6AFDZ BULK
		XLR 6A pole female, D Flange, Machined contacts, Black Finish	Standard	AC6AFDZB
			Gold Plated Contacts	AC6AFDZB-AU
			Vertical PCB	AC6AFDZVB
			Bulk Pack	AC6AFDZB BULK
		XLR 7 pole male, D Flange, Gold Plated Machined contacts, Nickel Finish	Standard	AC7MDZ
			Vertical PCB	AC7MDZV
			Bulk Pack	AC7MDZ BULK
		XLR 7 pole male, D Flange, Gold Plated Machined contacts, Black Finish	Standard	AC7MDZB
			Vertical PCB	AC7MDZVB
			Bulk Pack	AC7MDZB BULK
		XLR 7 pole female, D Flange, Gold Plated Machined contacts, Nickel Finish	Standard	AC7FDZ
			Vertical PCB	AC7FDZV
			Bulk Pack	AC7FDZ BULK
		XLR 7 pole female, D Flange, Gold Plated Machined contacts, Black Finish	Standard	AC7FDZB
			Vertical PCB	AC7FDZVB
			Bulk Pack	AC7FDZB BULK

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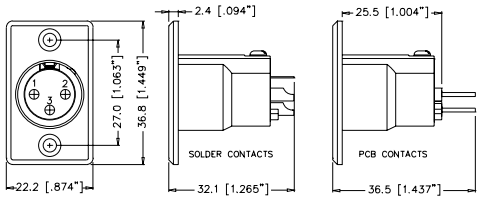
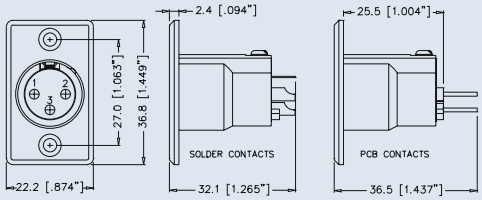
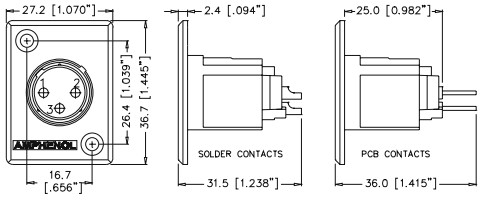
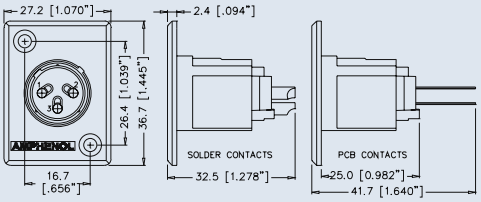
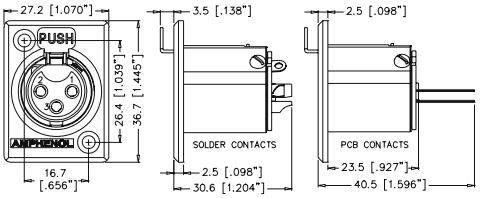
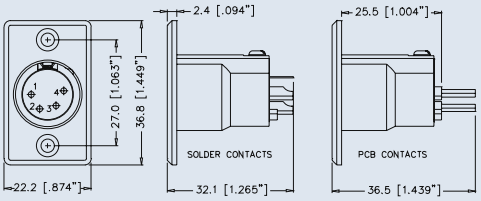
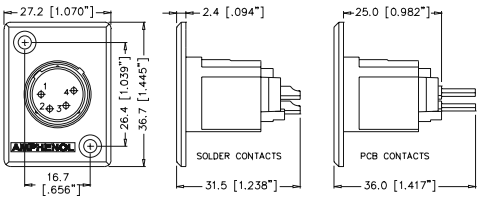
METAL P TYPE FLANGE - SOLDER AND PCB

Features:
- Zinc Diecast shell.
- The P size housing is the original wide flange front mounting XLR connector. PN is the original narrow, front mounting male connector.
- Solder Bucket connections.
- 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: ppage 33**

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole male, Narrow flange, Machined contacts, Nickel Finish	Standard	AC3MMPNZ
			Gold Plated Contacts	AC3MMPNZ-AU
			Vertical PCB	AC3MMPNZV
			Bulk Pack	AC3MMPNZ BULK
		XLR 3 pole male, Narrow flange, Machined contacts, Black Finish	Standard	AC3MMPNZB
			Gold Plated Contacts	AC3MMPNZB-AU
			Vertical PCB	AC3MMPNZVB
			Bulk Pack	AC3MMPNZB BULK
		XLR 3 pole male, Narrow flange, Stamped contacts, Nickel Finish	Standard	AC3MPNZ
			Gold Plated Contacts	AC3MPNZ-AU
			Vertical PCB	AC3MPNZV
			Bulk Pack	AC3MPNZ BULK
		XLR 3 pole male, Narrow flange, Stamped contacts, Black Finish	Standard	AC3MPNZB
			Gold Plated Contacts	AC3MPNZB-AU
			Vertical PCB	AC3MPNZVB
			Bulk Pack	AC3MPNZB BULK
		XLR 3 pole male, Wide flange, Machined contacts, Nickel Finish	Standard	AC3MMP
			Gold Plated Contacts	AC3MMP-AU
			Vertical PCB	AC3MMPV
			Bulk Pack	AC3MMP BULK
		XLR 3 pole male, Wide flange, Machined contacts, Black Finish	Standard	AC3MMPB
			Gold Plated Contacts	AC3MMPB-AU
			Vertical PCB	AC3MMPVB
			Bulk Pack	AC3MMPB BULK

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole male, Wide flange, Stamped contacts, Nickel Finish	Standard	AC3MP
			Gold Plated Contacts	AC3MP-AU
			Vertical PCB	AC3MPV
			Bulk Pack	AC3MP BULK
		XLR 3 pole male, Wide flange, Stamped contacts, Black Finish	Standard	AC3MPB
			Gold Plated Contacts	AC3MPB-AU
			Vertical PCB	AC3MPVB
			Bulk Pack	AC3MPB BULK
		XLR 3 pole female, Wide flange, Stamped contacts, Nickel Finish	Standard	AC3FPZ
			Gold Plated Contacts	AC3FPZ-AU
			Vertical PCB	AC3FPZV
			Bulk Pack	AC3FPZ BULK
		XLR 3 pole female, Wide flange, Stamped contacts, Black Finish	Standard	AC3FPZB
			Gold Plated Contacts	AC3FPZB-AU
			Vertical PCB	AC3FPZVB
			Bulk Pack	AC3FPZB BULK
		XLR 4 pole male, Narrow flange, Machined contacts, Nickel Finish	Standard	AC4MPNZ
			Gold Plated Contacts	AC4MPNZ-AU
			Vertical PCB	AC4MPNZV
			Bulk Pack	AC4MPNZ BULK
		XLR 4 pole male, Narrow flange, Machined contacts, Black Finish	Standard	AC4MPNZB
			Gold Plated Contacts	AC4MPNZB-AU
			Vertical PCB	AC4MPNZVB
			Bulk Pack	AC4MPNZB BULK
		XLR 4 pole male, Wide flange, Machined contacts, Nickel Finish	Standard	AC4MP
			Gold Plated Contacts	AC4MP-AU
			Vertical PCB	AC4MPV
			Bulk Pack	AC4MP BULK
		XLR 4 pole male, Wide flange, Machined contacts, Black Finish	Standard	AC4MPB
			Gold Plated Contacts	AC4MPB-AU
			Vertical PCB	AC4MPVB
			Bulk Pack	AC4MPB BULK

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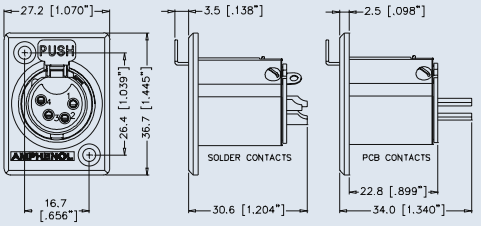
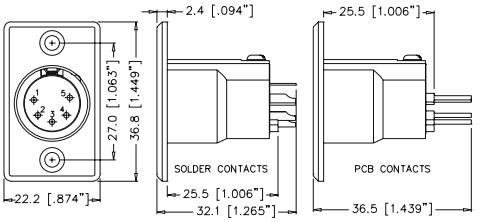
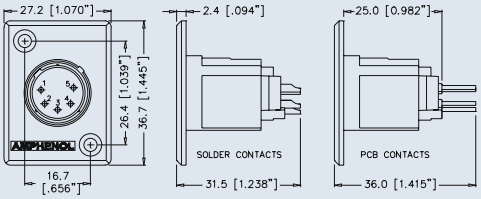
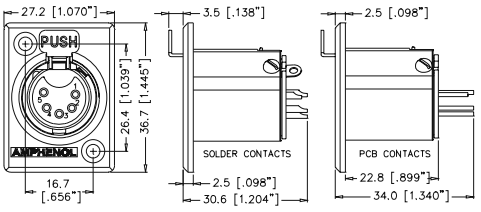
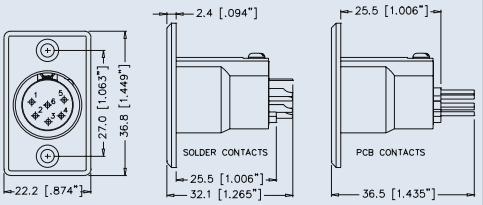
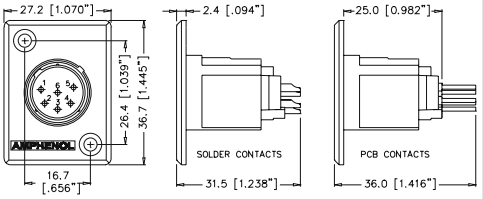
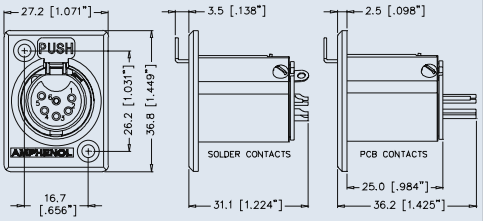
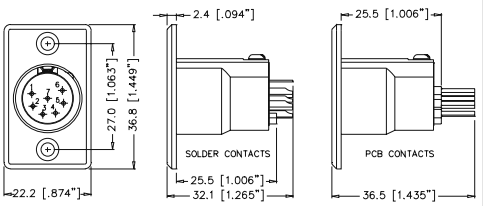
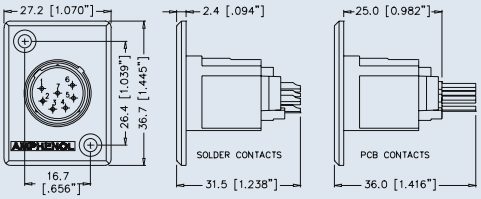
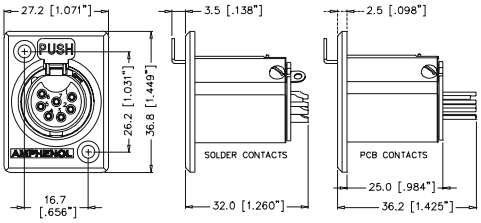
METAL P TYPE FLANGE

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 4 pole female, Wide flange, Machined contacts, Nickel Finish	Standard	AC4FPZ
			Gold Plated Contacts	AC4FPZ- AU
			Vertical PCB	AC4FPZV
			Bulk Pack	AC4FPZ BULK
		XLR 4 pole female, Wide flange, Machined contacts, Black Finish	Standard	AC4FPZB
			Gold Plated Contacts	AC4FPZB-AU
			Vertical PCB	AC4FPZVB
			Bulk Pack	AC4FPZB BULK
		XLR 5 pole male, Narrow flange, Machined contacts, Nickel Finish	Standard	AC5MPNZ
			Gold Plated Contacts	AC5MPNZ-AU
			Vertical PCB	AC5MPNZV
			Bulk Pack	AC5MPNZ BULK
		XLR 5 pole male, Narrow flange, Machined contacts, Black Finish	Standard	AC5MPNZB
			Gold Plated Contacts	AC5MPNZB-AU
			Vertical PCB	AC5MPNZVB
			Bulk Pack	AC5MPNZB BULK
		XLR 5 pole male, Wide flange, Machined contacts, Nickel Finish	Standard	AC5MP
			Gold Plated Contacts	AC5MP-AU
			Vertical PCB	AC5MPV
			Bulk Pack	AC5MP BULK
		XLR 5 pole male, Wide flange, Machined contacts, Black Finish	Standard	AC5MPB
			Gold Plated Contacts	AC5MPB-AU
			Vertical PCB	AC5MPVB
			Bulk Pack	AC5MPB BULK
		XLR 5 pole female, Wide flange, Machined contacts, Nickel Finish	Standard	AC5FPZ
			Gold Plated Contacts	AC5FPZ-AU
			Vertical PCB	AC5FPZV
			Bulk Pack	AC5FPZ BULK
		XLR 5 pole female, Wide flange, Machined contacts, Black Finish	Standard	AC5FPZB
			Gold Plated Contacts	AC5FPZB-AU
			Vertical PCB	AC5FPZVB
			Bulk Pack	AC5FPZB BULK

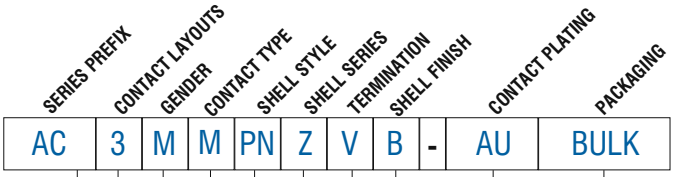
PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 6A pole male, Narrow flange, Machined contacts, Nickel Finish	Standard	AC6AMPNZ
			Gold Plated Contacts	AC6AMPNZ-AU
			Vertical PCB	AC6AMPNZV
			Bulk Pack	AC6AMPNZ BULK
		XLR 6A pole male, Narrow flange, Machined contacts, Black Finish	Standard	AC6AMPNZB
			Gold Plated Contacts	AC6AMPNZB-AU
			Vertical PCB	AC6AMPNZVB
			Bulk Pack	AC6AMPNZB BULK
		XLR 6A pole male, Wide flange, Machined contacts, Nickel Finish	Standard	AC6AMP
			Gold Plated Contacts	AC6AMP-AU
			Vertical PCB	AC6AMPV
			Bulk Pack	AC6AMP BULK
		XLR 6A pole male, Wide flange, Machined contacts, Black Finish	Standard	AC6AMPB
			Gold Plated Contacts	AC6AMPB-AU
			Vertical PCB	AC6AMPVB
			Bulk Pack	AC6AMPB BULK
		XLR 6A pole female, Wide flange, Machined contacts, Nickel Finish	Standard	AC6AFPZ
			Gold Plated Contacts	AC6AFPZ-AU
			Vertical PCB	AC6AFPZV
			Bulk Pack	AC6AFPZ BULK
		XLR 6A pole female, Wide flange, Machined contacts, Black Finish,	Standard	AC6AFPZB
			Gold Plated Contacts	AC6AFPZB-AU
			Vertical PCB	AC6AFPZVB
			Bulk Pack	AC6AFPZB BULK
		XLR 7 pole male, Narrow flange, Gold Plated Machined contacts, Nickel Finish	Standard	AC7MPNZ
			Vertical PCB	AC7MPNZV
			Bulk Pack	AC7MPNZ BULK
		XLR 7 pole male, Narrow flange, Gold Plated Machined contacts, Black Finish	Standard	AC7MPNZB
			Vertical PCB	AC7MPNZVB
			Bulk Pack	AC7MPNZB BULK

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 7 pole male, Wide flange, Gold Plated Machined contacts, Nickel Finish	Standard	AC7MP
			Vertical PCB	AC7MPV
			Bulk Pack	AC7MP BULK
		XLR 7 pole male, Wide flange, Gold Plated Machined contacts, Black Finish	Standard	AC7MPB
			Vertical PCB	AC7MPVB
			Bulk Pack	AC7MPB BULK
		XLR 7 pole female, Wide flange, Gold Plated Machined contacts, Nickel Finish	Standard	AC7FPZ
			Vertical PCB	AC7FPZV
			Bulk Pack	AC7FPZ BULK
		XLR 7 pole female, Wide flange, Gold Plated Machined contacts, Black Finish	Standard	AC7FPZB
			Vertical PCB	AC7FPZVB
			Bulk Pack	AC7FPZB BULK

PART NUMBER BREAKDOWN

METAL TYPE FLANGE

E. G . **AC3MMPNZVB-AU BULK**
AC (Series Prefix), **3** contacts, **M**ale, **M**achined Contacts, **PN** (Narrow Flange), **Z** (Metal Chassis Series), **V**ertical Printed Circuit Board, **B**lack Polyester Finish, - **AU** (Gold Plated Contacts), **Bulk** Packaged.



SERIES PREFIX	AC	=	Series Prefix
CONTACT LAYOUTS	3	=	3 Contacts
	4	=	4 Contacts
	5	=	5 Contacts
	6A	=	6 Contacts
	7	=	7 Contacts
GENDER	F	=	Female Socket Contacts
	M	=	Male Pin Contacts
MACHINED CONTACTS[1]	Blank	=	Stamped Contacts
	M	=	Machined Contacts (Applicable 3 male pin contacts only)
SHELL STYLE	D	=	Small Flange (front or rear mounting)
	P	=	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
	V	=	Vertical Printed Circuit Board
SHELL FINISH[2]	Blank	=	Nickel Plated Finish
	B	=	Black Polyester Finish
CONTACT PLATING[3]	Blank	=	Standard Plating (Silver or Tin - Refer to Standard Data.)
	AU	=	Gold Plated
PACKAGING	Blank	=	Individual Bags
	BULK	=	Bulk Packed

Note:

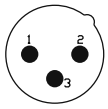
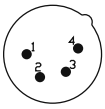
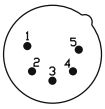
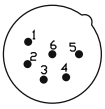
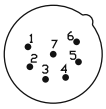
[1] 4 - 7 contact connectors have machined contacts and grounding as standard. They are not available in stamped contacts.

[2] Ground contacts are not supplied with the black polyester finish shell option.

[3] 7 Contact is gold plated as standard.

[4] Non-Latching Versions (Female) available - Please contact us for part number options.

STANDARD DATA AC SERIES CHASSIS - METAL "Z"

		VALUE				
GENERAL CHARACTERISTICS	Number of contacts	3	4	5	6A	7
	Contact Arrangement (Front view of pin inserts)					
	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 EU RoHS 2 Directive 2011/65/EU				
ELECTRICAL CHARACTERISTICS	Service Voltage RMS	133V[1)]				
	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				
	Operating Temperature	-25˚C to +75˚C (-13°F to +167°F)				
MECHANICAL CHARACTERISTICS	Weight - Metal [2)]	31g (0.068lb)	32g (0.070lb)	33g (0.072lb)	33g (0.072lb)	33g (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) Machined Solder-(Material/Plating)	 Phosphor Bronze / Silver or Gold (optional) Brass / Silver or Gold (optional)				
	Female Contact Stamped Solder and PCB-(Material/Plating) Machined Solder-(Material/Plating)	 Phosphor Bronze / Tin or Gold (optional) Brass / Silver or Gold (Optional)				

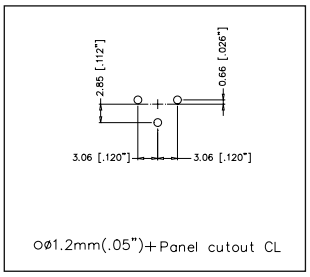
[1)] Not suitable for domestic applications above 50V

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

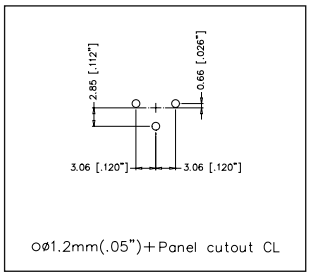
AC SERIES CHASSIS METAL "Z"

PCB FOOTPRINTS STRAIGHT (V)

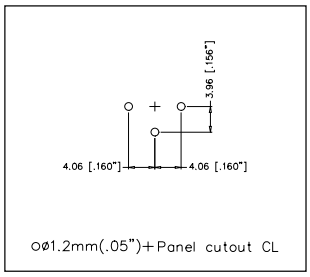
CONNECTOR SIDE OF PCB



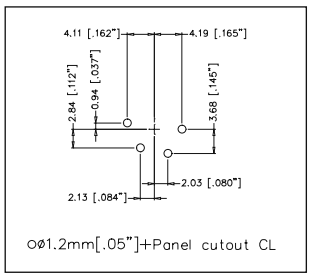
AC3F*ZV



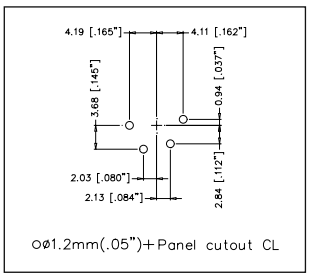
AC3M*ZV



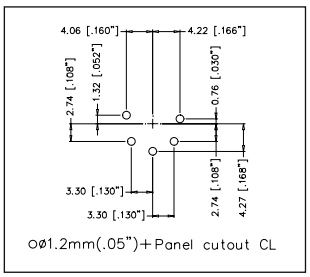
AC3MM*ZV



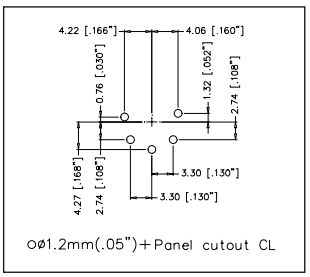
AC4F*ZV



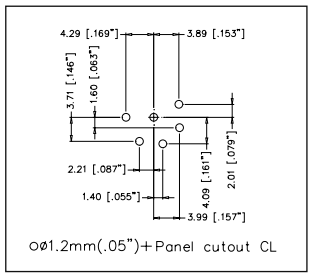
AC4M*ZV



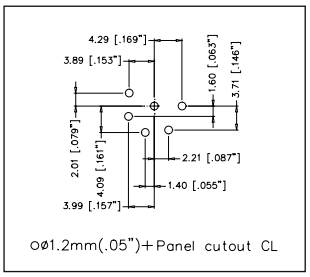
AC5F*ZV



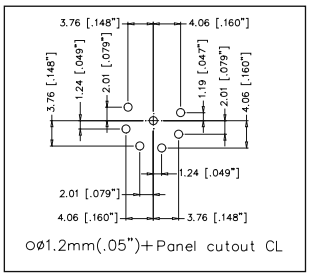
AC5M*ZV



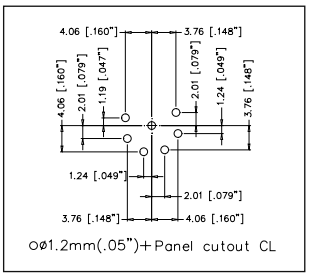
AC6AF*ZV



AC6AM*ZV



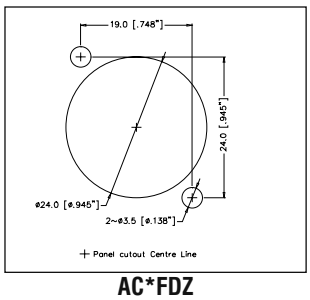
AC7F*ZV



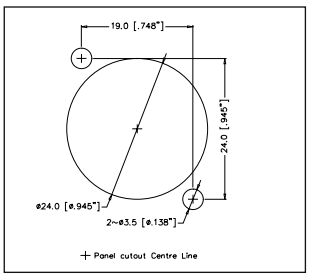
AC7M*ZV

PANEL CUTOUT DIMENSIONS

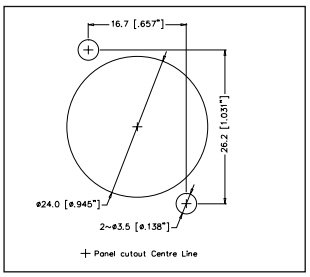
FRONT VIEW



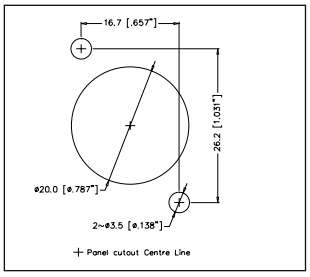
AC*FDZ



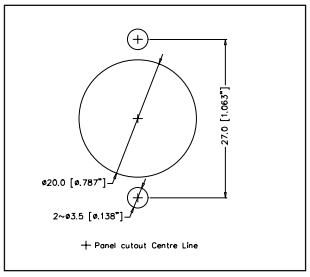
AC*MDZ



AC*FPZ



AC*MP



AC*MPNZ

AC SERIES XLR PCB CHASSIS MOUNT CONNECTORS

The AC series, A and B type XLR chassis receptacles have been designed and manufactured with the Original Equipment Manufacturers' (OEM) needs in mind. The compact shell design allows a significant space saving over the traditional 'D' type shell. Gold plated contacts improve the performance, ensuring a reliable contact and the unique grounding link options offer flexibility in design.

Features

- A leading first mate last break socket contact is standard on all female connectors (Pin 1).
- Vertical and Horizontal PCB versions available.
- Latching and Non-latching versions available.
- A range of different grounding options are available including:
  - Mating connector shell to Pin 1
  - Mating connector shell to Chassis
  - Mating connector shell to pin 1 to Chassis
- A type is available in 3 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

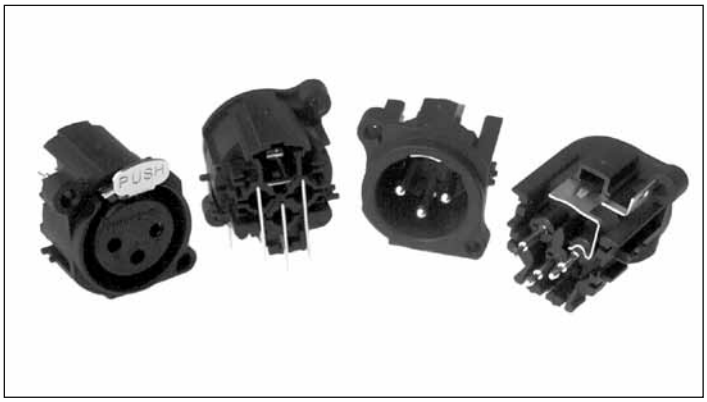
We have listed the more common ordering codes in each section. For further options please refer to the part number breakdown charts. Please contact us if you need any further assistance.

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

THERMOPLASTIC A - TYPE FLANGE 3 CONTACT

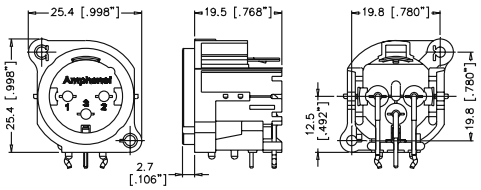
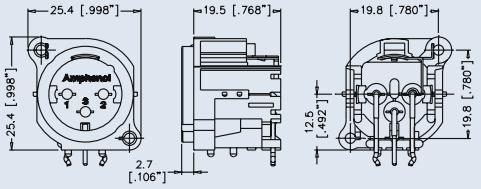
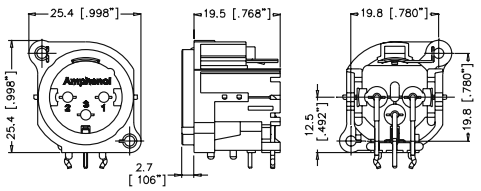
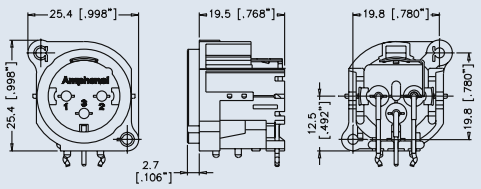
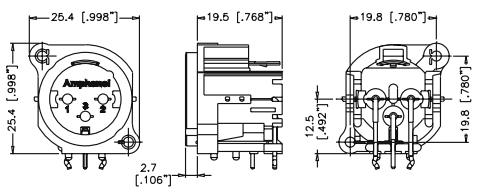
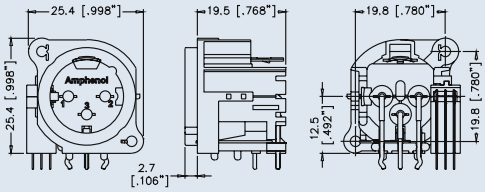


Features:

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

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

Part Number Breakdown: page 44 Specifications: page 47
PCB Footprints: page 48 Panel Cutouts: page 49
Recommended Fastener: page 137

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
		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

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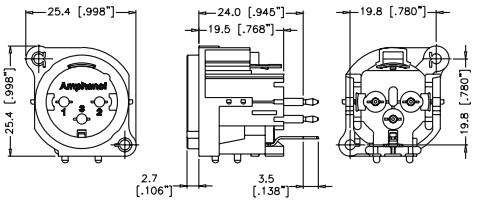
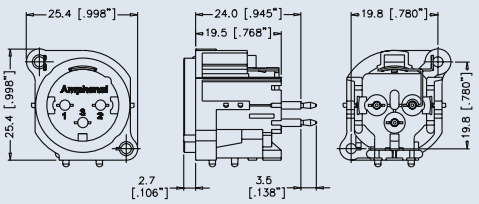
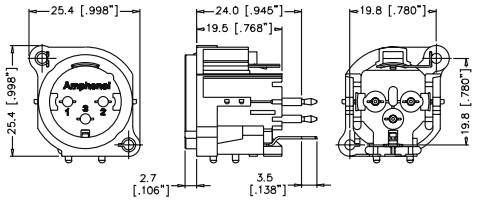
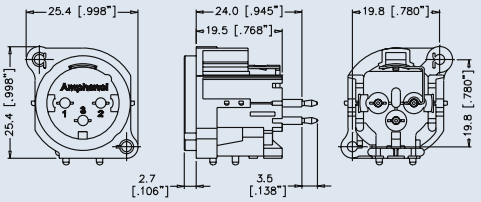
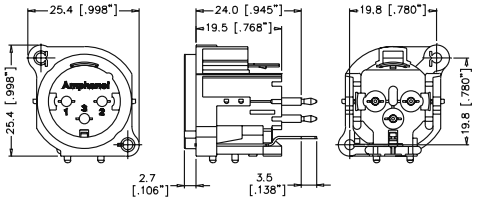
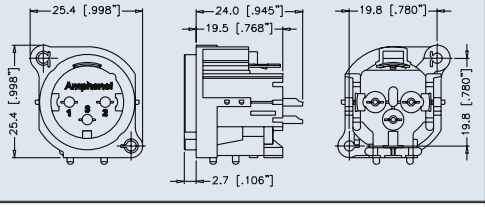
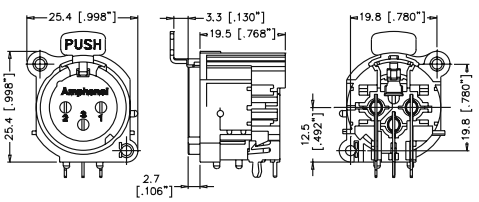
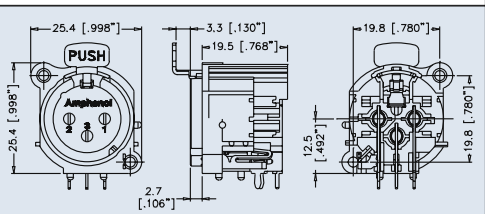
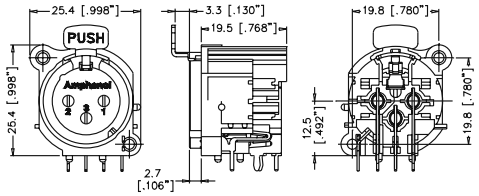
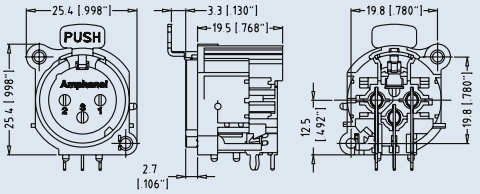
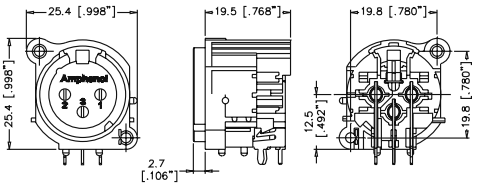
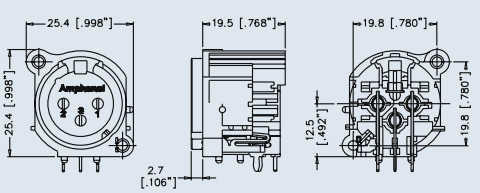
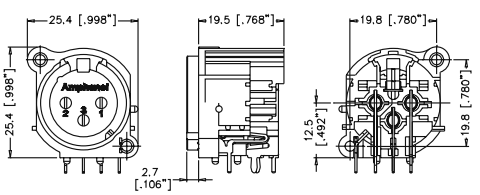
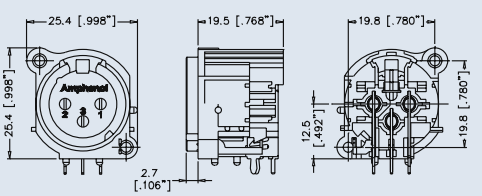
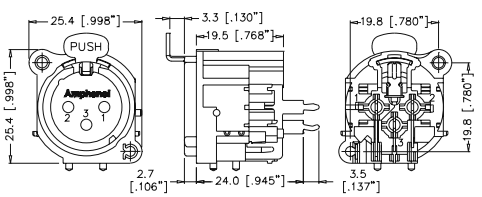
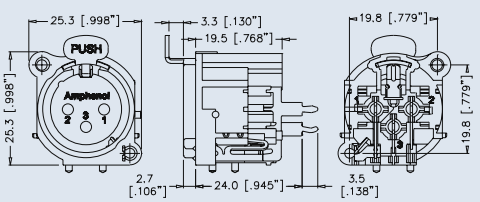
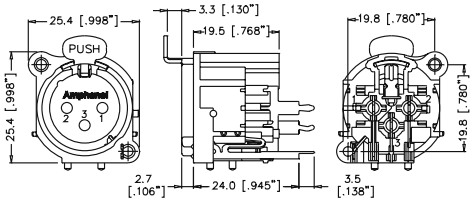
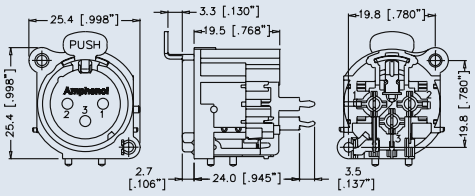
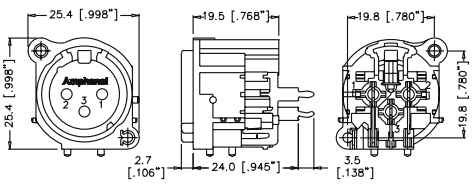
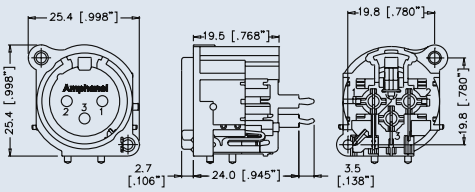
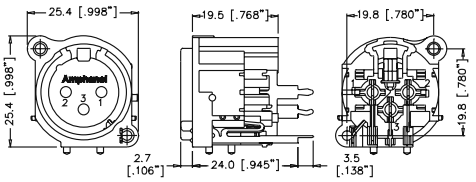
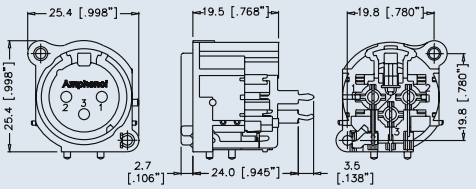
PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	GROUND LINK VARIATIONS	PART NUMBER
		XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3MAV-AU-B
		XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to Mating connector shell	AC3MAV1-AU-B
		XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Chassis - Pin 1 sep. Ground	AC3MAV2-AU-B
		XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack	Mating connector shell to Pin 1	AC3MAV3-AU-B
		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
		XLR 3 pole male, Solder Buckets, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3MA-AU-B
		XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAH-AU-B
		XLR 3 pole female, Horizontal PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to Mating connector shell	AC3FAH1-AU-B

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	GROUND LINK VARIATIONS	PART NUMBER
		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
		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
		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
		XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis	AC3FAHL3-AU-B
		XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAV-AU-B
		XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis to mating connector shell	AC3FAV1-AU-B

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	GROUND LINK VARIATIONS	PART NUMBER
		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
		XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis	AC3FAV3-AU-B
		XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAVL-AU-B
		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
		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
		XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack	Pin 1 to Chassis	AC3FAVL3-AU-B

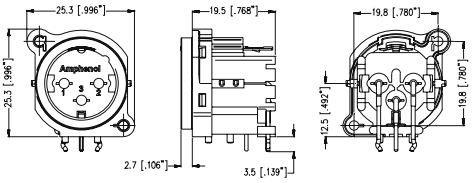
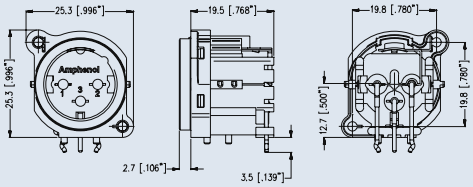
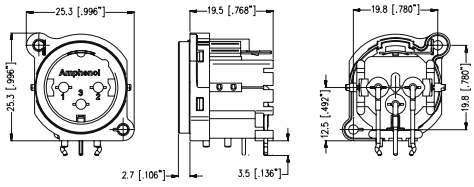
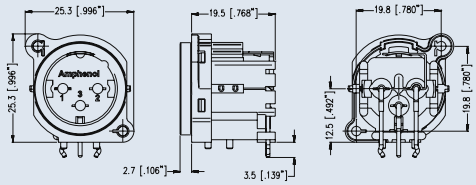
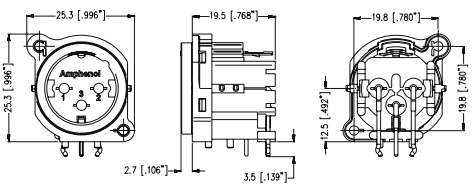
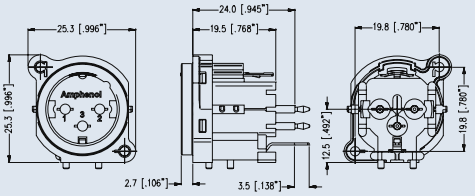
METAL B - TYPE FLANGE 3 CONTACT

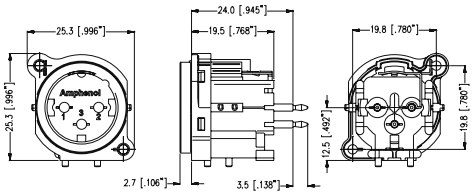
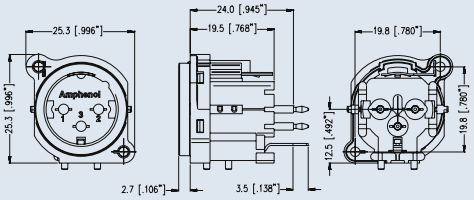
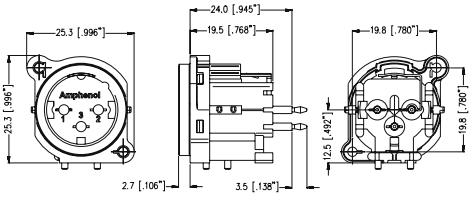
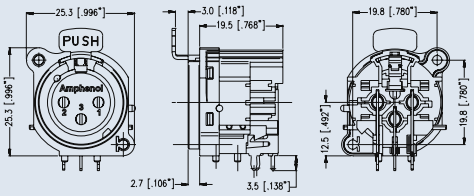
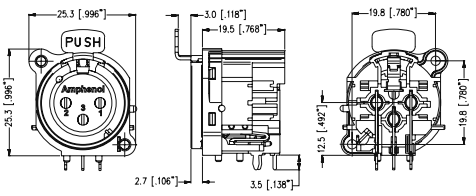
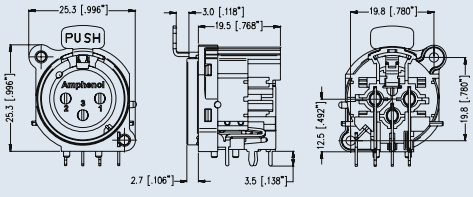
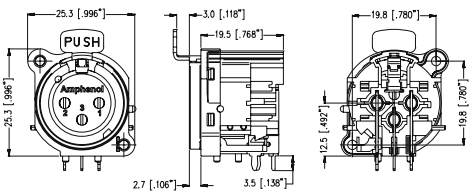
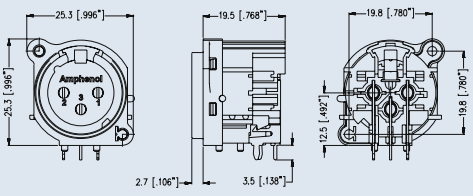
Features:

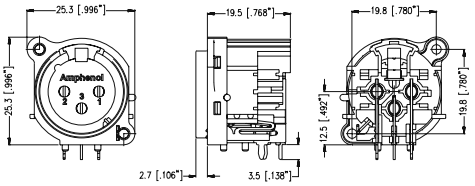
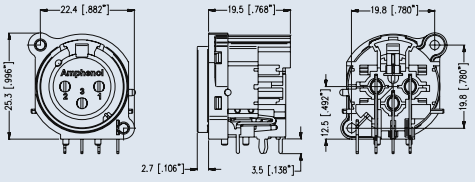
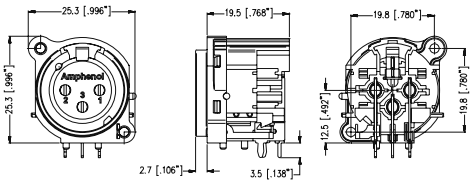
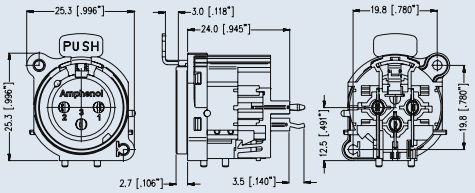
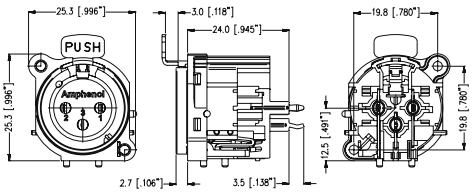
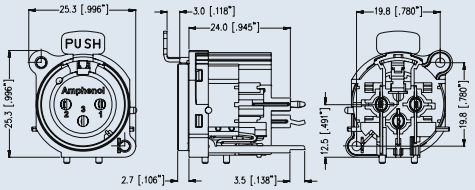
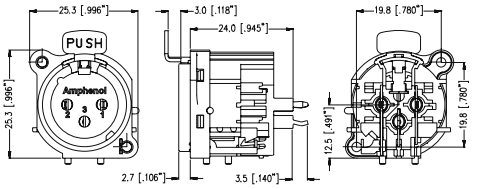
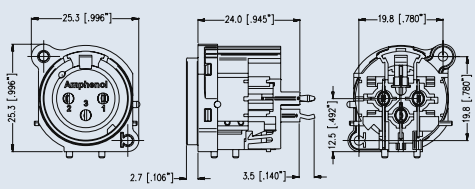
- Thermoplastic Shell with Metal Mounting Flange.
- Industry standard PCB footprints.
- Improved grounding performance.
- Vertical or Horizontal PCB mounting.
- Precision machined pin contacts.
- Gold plated contacts.
- Leading first mate last break socket contact.
- Bulk packed in trays, 100 to a box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

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

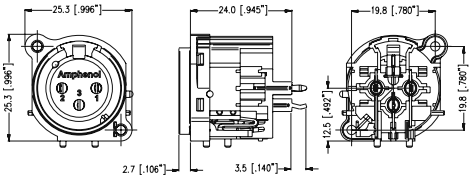
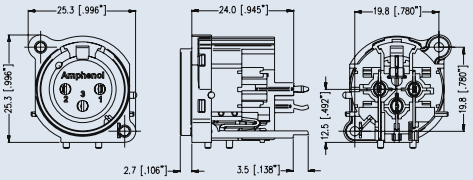
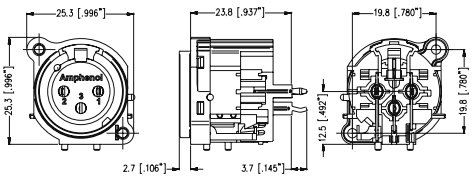
Part Number Breakdown: page 45 **Specifications: page 47**
PCB Footprints: page 48 **Panel Cutouts: page 49**
Recommended Fastener: page 137

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION/ GROUND LINK	MOUNTING FLANGE VARIATIONS	PART NUMBER
		XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3MBH-AU-B
			Black Finish	AC3MBHB-AU-B
		XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis to Mating connector shell	Nickel Finish	AC3MBH1-AU-B
			Black Finish	AC3MBHB1-AU-B
		XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack Mating connector shell to Chassis - Pin 1 sep. Ground	Nickel Finish	AC3MBH2-AU-B
			Black Finish	AC3MBHB2-AU-B
		XLR 3 pole male, Horizontal PCB, Gold Plated Contacts, Bulk Pack Mating connector shell to Pin 1	Nickel Finish	AC3MBH3-AU-B
			Black Finish	AC3MBHB3-AU-B
		XLR 3 pole male, Horizontal PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3MBHL-AU-B
			Black Finish	AC3MBHBL-AU-B
		XLR 3 pole male, Vertical PCB, Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3MBV-AU-B
			Black Finish	AC3MBVB-AU-B

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

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 Pin 1 to Chassis to mating connector shell	Nickel Finish	AC3FBHL1-AU-B
			Black Finish	AC3FBHBL1-AU-B
		XLR 3 pole female, Horizontal PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack Mating connector shell to Chassis - Pin 1 sep. Ground.	Nickel Finish	AC3FBHL2-AU-B
			Black Finish	AC3FBHBL2-AU-B
		XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack Pin 1 to Chassis	Nickel Finish	AC3FBHL3-AU-B
			Black Finish	AC3FBHBL3-AU-B
		XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3FBV-AU-B
			Black Finish	AC3FBVB-AU-B
		XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis to mating connector shell	Nickel Finish	AC3FBV1-AU-B
			Black Finish	AC3FBVB1-AU-B
		XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack Mating connector shell to Chassis - Pin 1 sep. Ground.	Nickel Finish	AC3FBV2-AU-B
			Black Finish	AC3FBVB2-AU-B
		XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis	Nickel Finish	AC3FBV3-AU-B
			Black Finish	AC3FBVB3-AU-B
		XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack No Ground Link	Nickel Finish	AC3FBVL-AU-B
			Black Finish	AC3FBVBL-AU-B

METAL B TYPE FLANGE

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION/ GROUND LINK	MOUNTING FLANGE VARIATIONS	PART NUMBER
		XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis to Mating connector shell	Nickel Finish	AC3FBVL1-AU-B
			Black Finish	AC3FBVBL1-AU-B
		XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack Mating connector shell to Chassis-Pin 1 sep. Ground.	Nickel Finish	AC3FBVL2-AU-B
			Black Finish	AC3FBVBL2-AU-B
		XLR 3 pole female, Vertical PCB, Non-Latching Type, Gold Plated Contacts, Bulk Pack Pin 1 to Chassis	Nickel Finish	AC3FBVL3-AU-B
			Black Finish	AC3FBVBL3-AU-B

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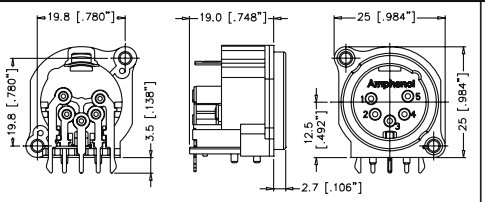
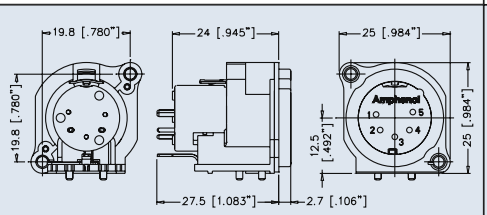
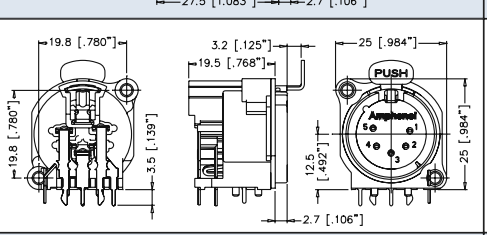
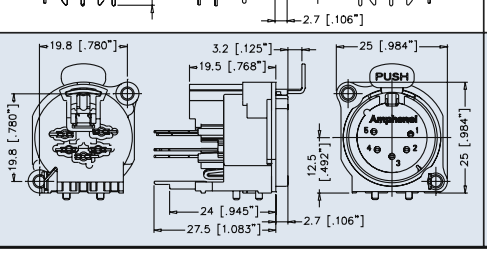
THERMOPLASTIC A - TYPE FLANGE 5 CONTACT

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.

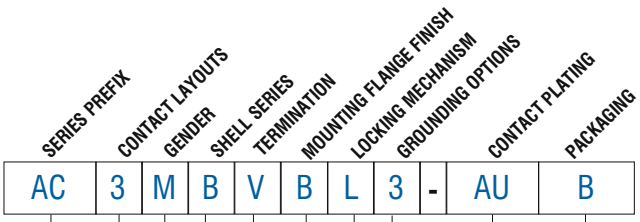
Options: Vertical or Horizontal PCB,

Part Number Breakdown: page 46 **Specifications: page 47**
PCB Footprints: page 48 **Panel Cutouts: page 49**
Recommended Fastener: page 137

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
		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
		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
		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

PART NUMBER BREAKDOWN

AC SERIES A AND B TYPE MALE - 3 CONTACT

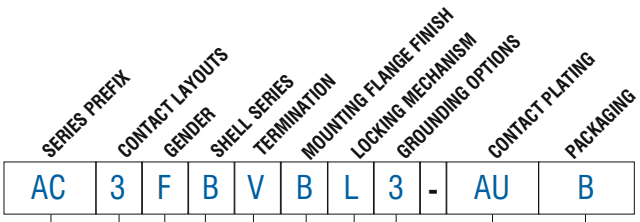


E. G . **AC3MAVL3-AU B**
AC (series prefix),**3** contacts, **M**ale, **A** Type, **V**ertical Printed Circuit Board, **L**atchless, **3** (Mating Shell to Pin 1 Grounding), - **AU** (Gold Plated Contacts), **B**ulk Packaged.

SERIES PREFIX	AC	=	Series Prefix
CONTACT LAYOUT	3	=	3 Contacts only
GENDER	M	=	Male Pin Contacts
SHELL SERIES	A	=	A Type
	B	=	B Type
TERMINATION	H	=	Horizontal Printed Circuit Board
	V	=	Vertical Printed Circuit Board
	Blank	=	Solder Bucket Contacts
MOUNTING FLANGE FINISH (B TYPE ONLY)	Blank	=	Nickel
	B	=	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	=	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	B	=	Bulk Packed

PART NUMBER BREAKDOWN

AC SERIES A AND B TYPE FEMALE - 3 CONTACT



E. G . **AC3FAVL3-AU B**
AC (series prefix),**3** contacts, **F**emale, **A** Type, **V**ertical Printed Circuit Board,**L**atchless, **3** (Pin 1 to Chassis Grounding), - **AU** (Gold Plated Contacts), **B**ulk Packaged.

SERIES PREFIX	AC	=	Series Prefix
CONTACT LAYOUT	3	=	3 Contacts only
GENDER	F	=	Female Socket Contacts
SHELL SERIES	A	=	A Type
	B	=	B Type
TERMINATION	H	=	Horizontal Printed Circuit Board
	V	=	Vertical Printed Circuit Board
MOUNTING FLANGE FINISH (B TYPE ONLY)	Blank	=	Nickel
	B	=	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	AU	=	Gold Plated Contacts
	AG	=	Silver Plated Contacts (Non-Standard)
PACKAGING	B	=	Bulk Packed

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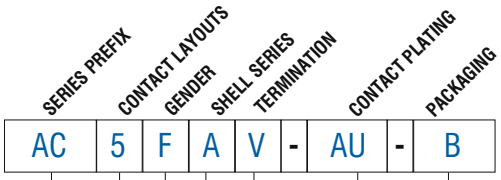
PART NUMBER BREAKDOWN

AC SERIES A TYPE MALE AND FEMALE - 5 CONTACT



E. G . **AC5FAV-AU-B**
AC (series prefix),**5** contacts, **F**emale, **A** Type, **V**ertical Printed Circuit Board,
AU (Gold Plated Contacts) - **B**ulk Packaged.

SERIES PREFIX	AC	=	Series Prefix
CONTACT LAYOUT	5	=	5 Contacts only
GENDER	F	=	Female Socket Contacts
	M	=	Male Pin Contacts
SHELL SERIES	A	=	A Type
TERMINATION	H	=	Horizontal Printed Circuit Board
	V	=	Vertical Printed Circuit Board
CONTACT PLATING	AU	=	Gold Plated Contacts
PACKAGING	B	=	Bulk Packed

STANDARD DATA AC SERIES A AND B TYPE CHASSIS

		VALUE	
GENERAL CHARACTERISTICS	Number of contacts	3	5
	Contact Arrangements (Front view of pin insert)		
	Termination	Printed Circuit Board (PCB)	
	Flammability rating of plastics	UL94V-0	UL94HB
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU	
ELECTRICAL CHARACTERISTICS	Service Voltage RMS	133V [1]	
	Test Voltage AC RMS	1500V	
	Current carrying capacity	6A	3A
	Typical Contact Resistance	≤5mΩ	
	Insulation Resistance (initial)	≥2GΩ	
	Insulation Resistance (after damp heat test)	≥1GΩ	
CLIMATIC CHARACTERISTICS	Protection Class	IP40	
	Operating Temperature	-25˚C to +75˚C (-13°F to +167°F)	
MECHANICAL CHARACTERISTICS	Weight [2]	14g (0.030lb)	
	Retention Spring separating force	≥20N	
	Mounting Screw torque max.	1.5Nm	
	Mechanical Operations	1500 mating cycles	
	Fastening A Type Connectors [3] Fastening B Type Connectors [3]	Self-Tapping PT screw with thread 2.9 x 1.06 and of Tri-rondular configuration Self-Tapping screw M2.5	
MATERIALS	Connector Flange - B-Type Flange Finish - B-Type	Diecast Zinc Alloy Nickel or Black	
	Insulators	PA6.6+25% glass fibre reinforced, UL94V-0	UL94HB
	Male Contact Material Male Contact Plating	Brass 0.0762μm (3μ") gold over 0.762μm (30μ") nickel	
	Female Contact Material Female Contact Plating	Bronze 0.0762μm (3μ") gold over 0.762μm (30μ") nickel	
	Latch lock and Spring	Spring Steel	
	Ground element	Spring Steel	

[1] Not suitable for domestic applications above 50V

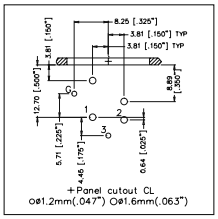
[2] Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.

[3] Refer to page 132

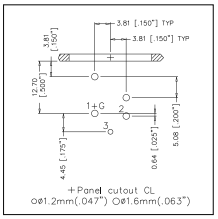
Rev 8 - 03/2013

AC SERIES A AND B TYPE CHASSIS

PCB FOOTPRINTS STRAIGHT (V) - CONNECTOR SIDE OF PCB

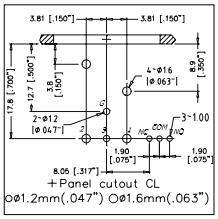


AC3FAH2
AC3FBH2
AC3FBHB2

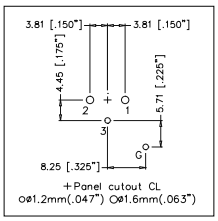


AC3FAH1
AC3FAH3
AC3FBH1
AC3FBHB1
AC3FBH3

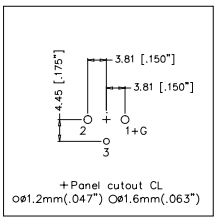
AC3FBHB3
AC3FAH
AC3FBH
AC3FBHB



AC3MAH4SWB

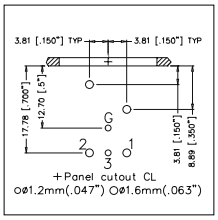


AC3FAV2
AC3FBV2
AC3FBVB2

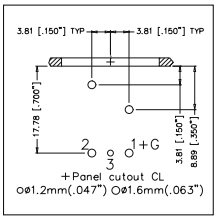


AC3FAV1
AC3FAV3
AC3FBV1
AC3FBVB1
AC3FBV3

AC3FBVB3
AC3FAV
AC3FBV
AC3FBVB

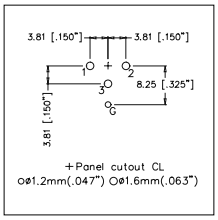


AC3MAH2
AC3MAH4
AC3MBH2
AC3MBHB2

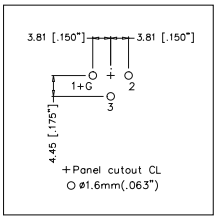


AC3MAH1
AC3MAH3
AC3MBH1
AC3MBHB1
AC3MBH3
AC3MBHB3

AC3MAH
AC3MBH
AC3MBHB
AC3MBHL
AC3MBHBL



AC3MAV2
AC3MAV4
AC3MBV2
AC3MBVB2

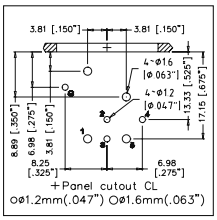


AC3MAV1
AC3MAV3
AC3MBV1
AC3MBVB1
AC3MBV3
AC3MBVB3

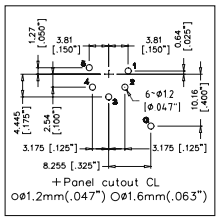
AC3MBVB3
AC3MAV
AC3MBV
AC3MBVB

AC SERIES 5 PIN

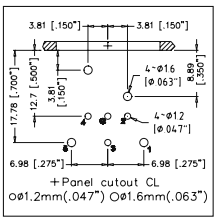
PCB FOOTPRINTS STRAIGHT (V) - CONNECTOR SIDE OF PCB



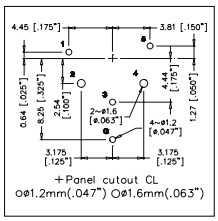
AC5FAH



AC5FAV



AC5MAH

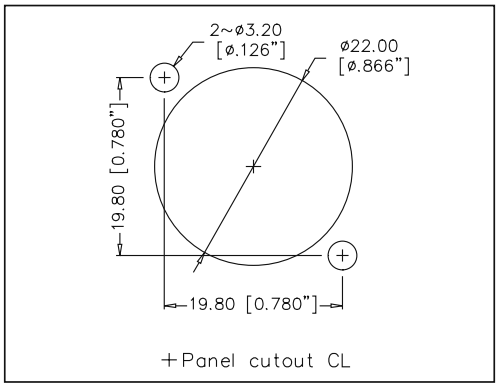


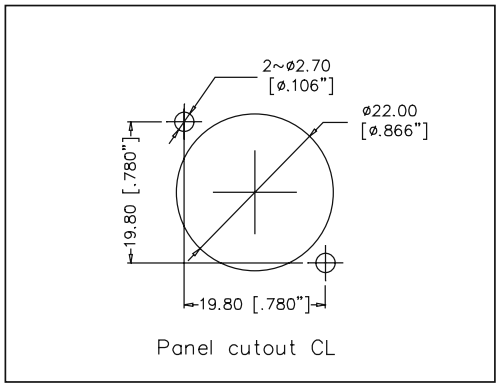
AC5MAV

AC SERIES A AND B TYPE CHASSIS

PANEL CUTOUT DIMENSIONS - FRONT VIEW

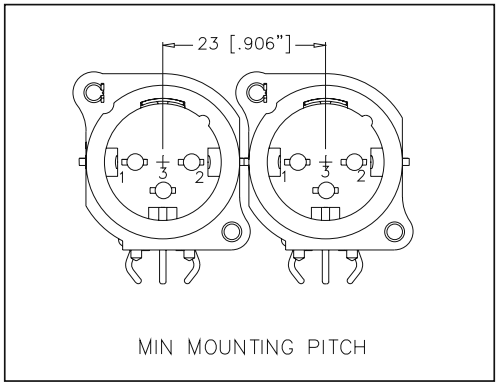
A TYPE

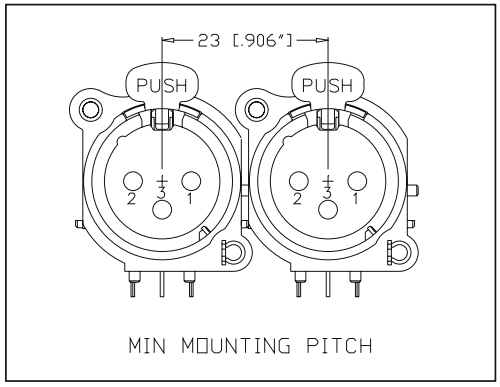




B TYPE

A AND B TYPE MALE MOUNTING PITCH

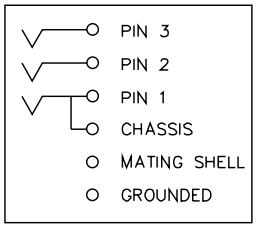




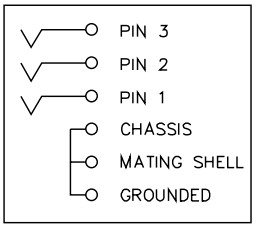
A AND B TYPE FEMALE MOUNTING PITCH

AC3FA/BH/V SCHEMATIC CHART

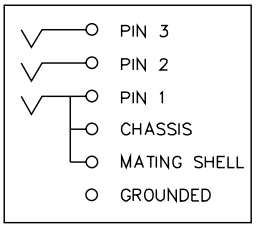
AC3FA/BH/V3-AU
AC3FA/BH/VL3-AU



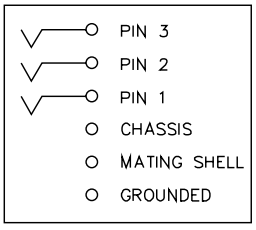
AC3FA/BH/V2-AU
AC3FA/BH/VL2-AU



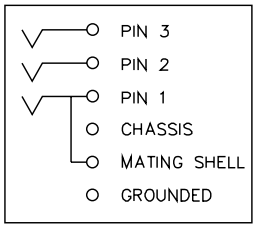
AC3FA/BH/V1-AU
AC3FA/BH/VL1-AU



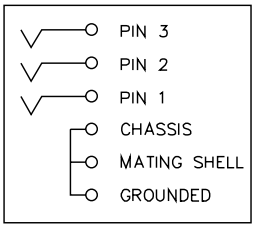
AC3FA/BH/V-AU
AC3FA/BH/VL-AU



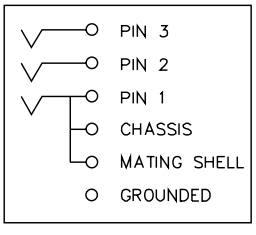
AC3MA/BH/V3-AU
AC3MA/BH/VL3-AU



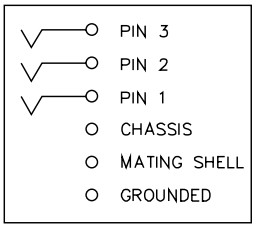
AC3MA/BH/V2/4-AU
AC3MA/BH/VL2/4-AU



AC3MA/BH/V1-AU
AC3MA/BH/VL1-AU



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



AC SERIES DUAL 1/4” (6.35mm) / XLR

The AC Series C type chassis receptacles feature two connectors in the one space saving housing. A combined XLR female receptacle together with a 6.35mm (1/4”) phone jack give the designer more flexibility ensuring premium board space is saved. The new low profile high density C type offers a 15% space saving over the traditional C type. Various configurations are available in either stereo or mono layouts with Vertical, Horizontal Printed Circuit Board or Solder contacts.

Features

- Standard or low profile / high density shell design
- Two connectors in the one housing.
- Industry standard PCB footprint layout on standard C type.
- Vertical or Horizontal PCB mounting.
- Bulk packed.
- Positive latch lock system (XLR).

Options

- Solder contacts
- Vertical PCB contacts
- Horizontal PCB contacts
- Bulk Packaging
- Overmoldable connector housing

Ordering Codes

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

Simple steps to guide you in using this catalogue

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

NEW ITEM

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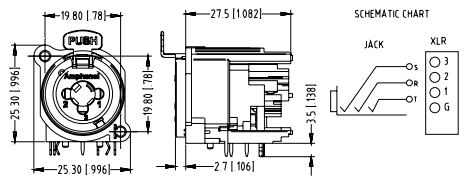
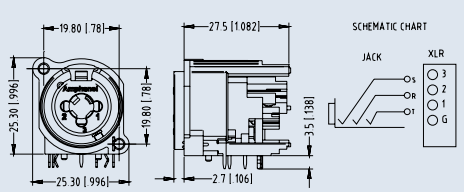
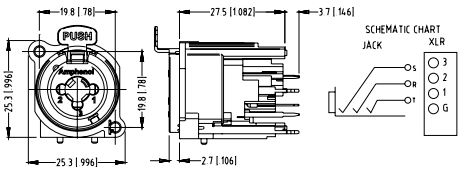
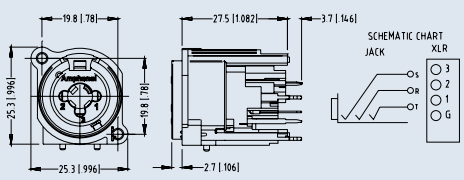
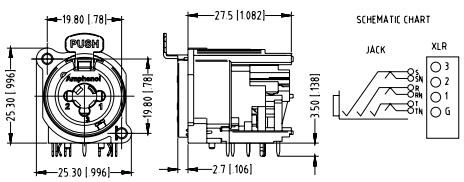
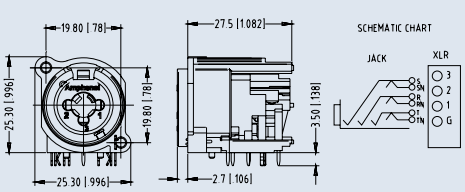
C - TYPE LOW PROFILE DUAL JACK / XLR CONNECTORS

Features:

- Two connectors in the one housing.
- Low profile design offers a 15% space saving over the traditional design.
- Vertical or Horizontal PCB mounting.
- Bulk packed in trays, 100 to a box as standard.
- Positive latch lock system (XLR).

Part Number Breakdown: page 56
Specifications: page 58
PCB Footprints: page 57
Recommended Fastener: page 137

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		Low Profile XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Horizontal PCB mount, Bulk Pack	Latching	ACJC6AH BULK
		Low Profile XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC6AHL BULK
		Low Profile XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Vertical PCB mount, Bulk Pack	Latching	ACJC6AV BULK
		Low Profile XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC6AVL BULK
		Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack, Horizontal PCB mount, Bulk Pack	Latching	ACJC9AH BULK
		Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC9AHL BULK

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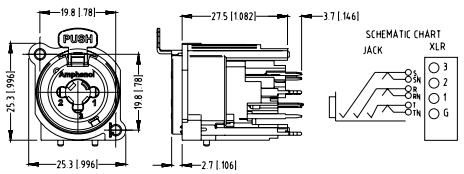
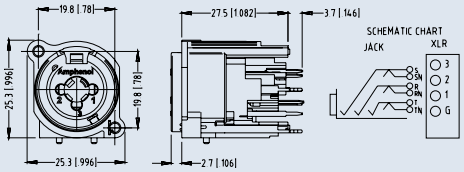
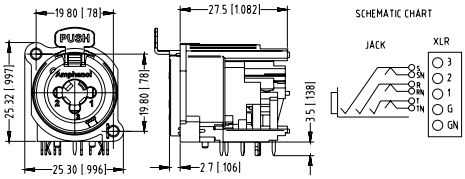
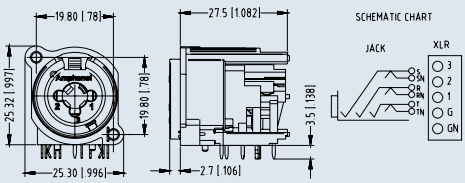
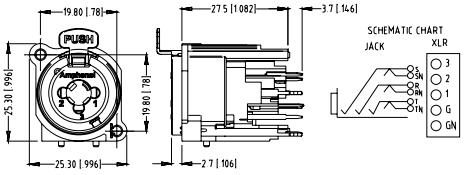
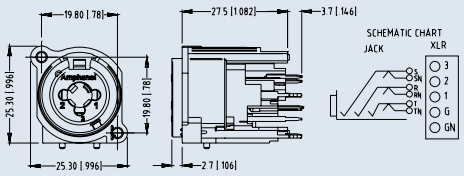
PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack, Vertical PCB mount, Bulk Pack	Latching	ACJC9AV BULK
		Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC9AVL BULK
		Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Horizontal PCB mount, Bulk Pack	Latching	ACJC10AH BULK
		Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC10AHL BULK
		Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Vertical PCB mount, Bulk Pack	Latching	ACJC10AV BULK
		Low Profile XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC10AVL BULK

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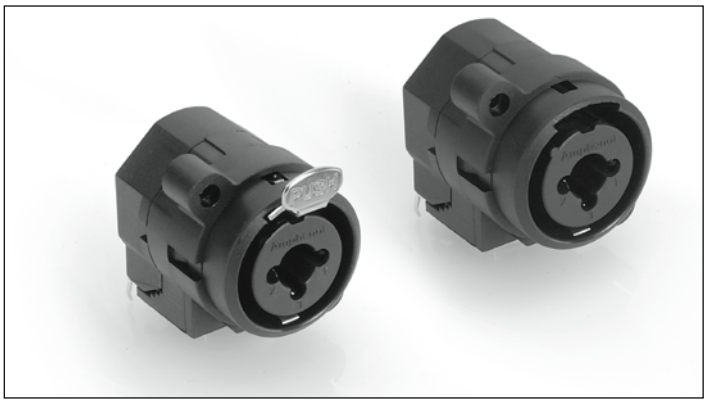
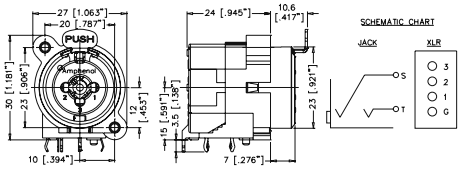
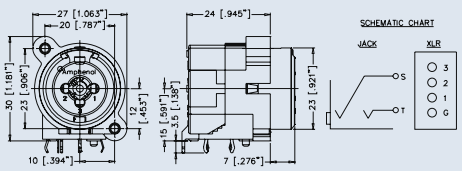
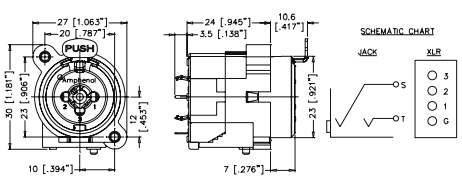
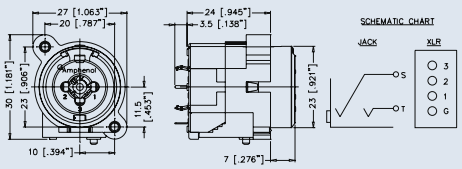
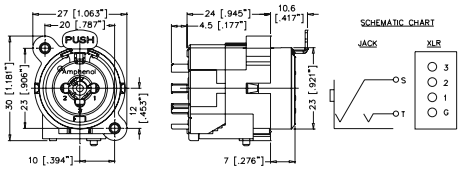
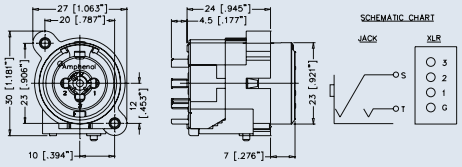
C - TYPE DUAL JACK / XLR CONNECTORS

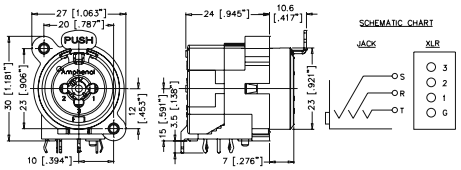
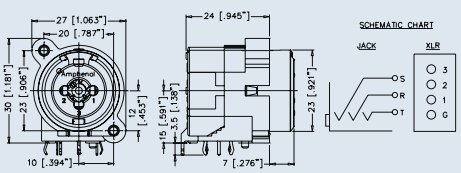
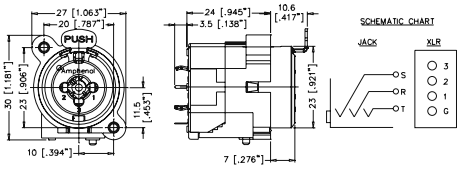
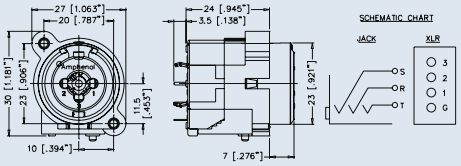
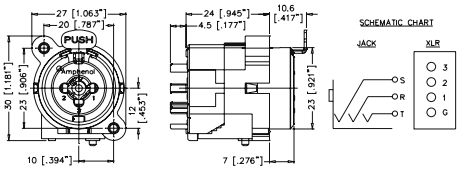
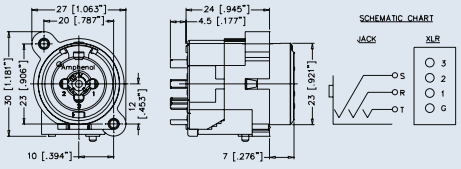
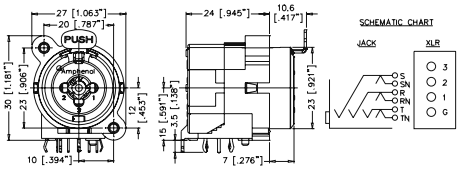
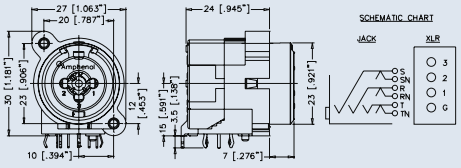


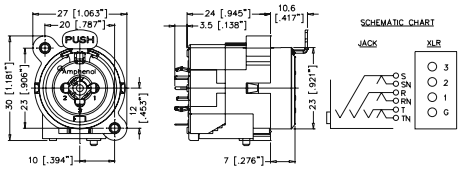
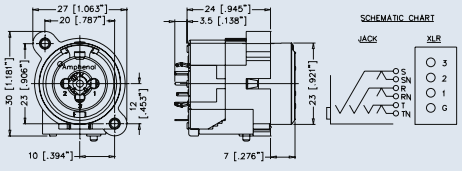
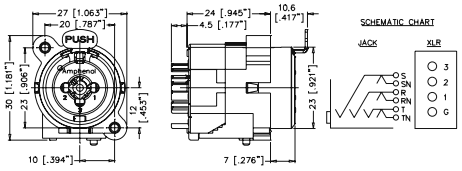
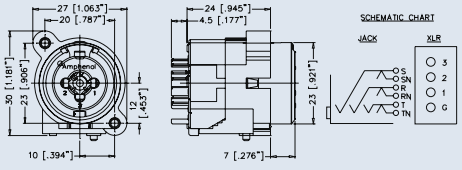
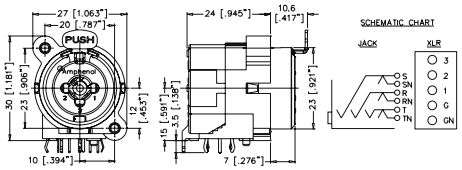
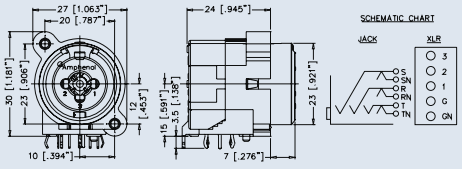
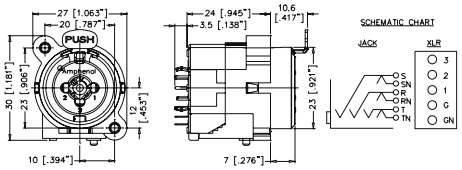
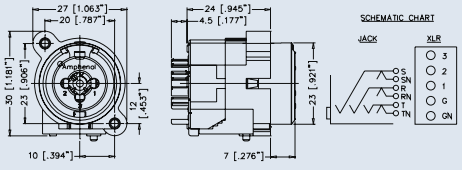
Features:

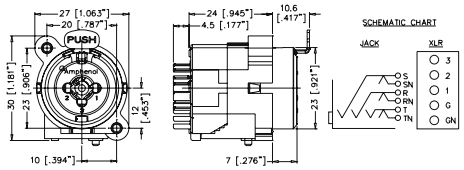
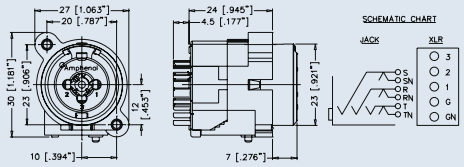
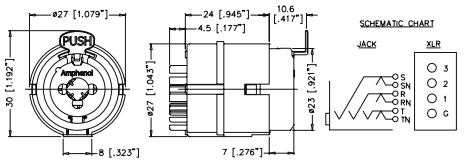
- Two connectors in the one housing.
- Space saving design.
- Industry standard PCB footprint layout.
- Vertical or Horizontal PCB mounting.
- Bulk packed in trays, 100 to a box as standard.
- Positive latch lock system (XLR).

Part Number Breakdown: page 56
Specifications: page 58
PCB Footprints: page 57
Recommended Fastener: page 137

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Horizontal PCB mount, Bulk Pack	Latching	ACJC5H BULK
		XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC5HL BULK
		XLR 3 pole female receptacle with 1/4" mono jack without switching contact, Vertical PCB mount, Bulk Pack	Latching	ACJC5V BULK
		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

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Horizontal PCB mount, Bulk Pack	Latching	ACJC6H BULK
		XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC6HL BULK
		XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Vertical PCB mount, Bulk Pack	Latching	ACJC6V BULK
		XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC6VL BULK
		XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Solder Contacts, Bulk Pack	Latching	ACJC6S BULK
		XLR 3 pole female receptacle with 1/4" stereo jack without switching contact, Solder Contacts, Bulk Pack	Non-latching, Retention Spring	ACJC6SL BULK
		XLR 3 pole female receptacle with 1/4" switching stereo jack, Horizontal PCB mount, Bulk Pack	Latching	ACJC9H BULK
		XLR 3 pole female receptacle with 1/4" switching stereo jack, Horizontal PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC9HL BULK

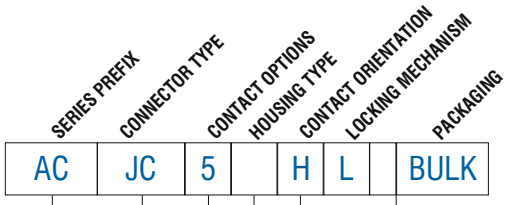
PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole female receptacle with 1/4" switching stereo jack, Vertical PCB mount, Bulk Pack	Latching	ACJC9V BULK
		XLR 3 pole female receptacle with 1/4" switching stereo jack, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC9VL BULK
		XLR 3 pole female receptacle with 1/4" switching stereo jack, Solder Contacts, Bulk Pack	Latching	ACJC9S BULK
		XLR 3 pole female receptacle with 1/4" switching stereo jack, Solder Contacts, Bulk Pack	Non-latching, Retention Spring	ACJC9SL BULK
		XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Horizontal PCB mount, Bulk Pack	Latching	ACJC10H BULK
		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
		XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Vertical PCB mount, Bulk Pack	Latching	ACJC10V BULK
		XLR 3 pole female receptacle with 1/4" switching stereo jack and switching ground contact, Vertical PCB mount, Bulk Pack	Non-latching, Retention Spring	ACJC10VL BULK

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		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
		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

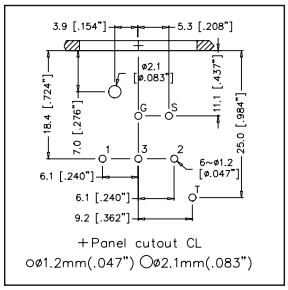
AC SERIES THERMOPLASTIC C TYPE

E. G . **ACJC5HL BULK**
AC (Series Prefix),**JC** Jack/Connector XLR, **5** Mono, **H**orizontal Printed Circuit Board, **L**atchless, **Bulk** Packaged.

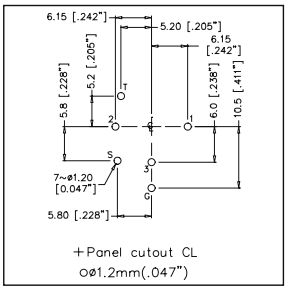


SERIES PREFIX	AC	=	Series Prefix
CONNECTOR TYPE	JC	=	Jack / Connector XLR
CONTACT OPTIONS	5	=	Mono, Non Switching, XLR Grounded
	6	=	Stereo, Non Switching, XLR Grounded
	9	=	Stereo, Switching, XLR Grounded
	10	=	Stereo, Switching, XLR with Ground Switch
HOUSING TYPE	Blank	=	Standard
	A	=	Low Profile / High Density
	M	=	Overmold Housing
CONTACT TYPE	V	=	Vertical Printed Circuit Board
	H	=	Horizontal Printed Circuit Board
	S	=	Solder Contacts
LOCKING MECHANISM	Blank	=	Latching
	L	=	Latchless
PACKAGING	Blank	=	Individual Bags
	BULK	=	Bulk Packed

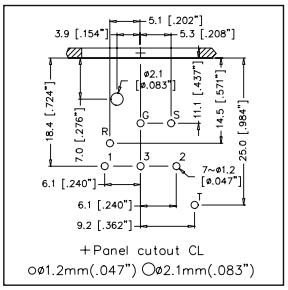
AC SERIES C TYPE SERIES



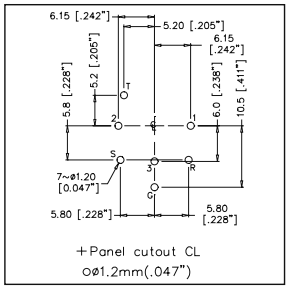
ACJC5H & ACJC5HL



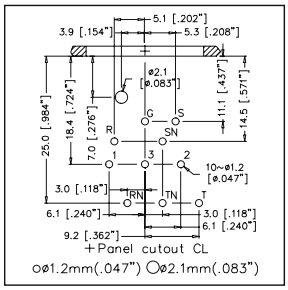
ACJC5V & ACJC5VL



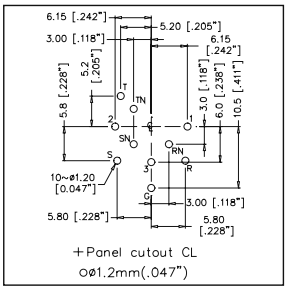
ACJC6H & ACJC6HL



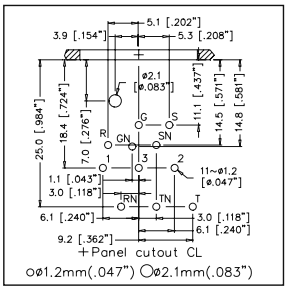
ACJC6V & ACJC6VL



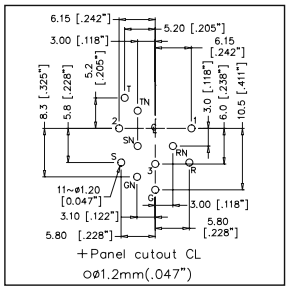
ACJC9H & ACJC9HL



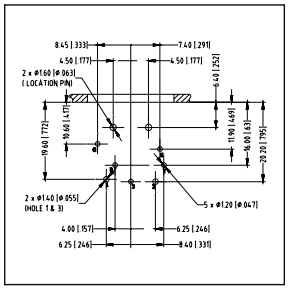
ACJC9V & ACJC9VL



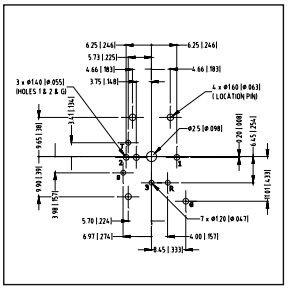
ACJC10H & ACJC10HL



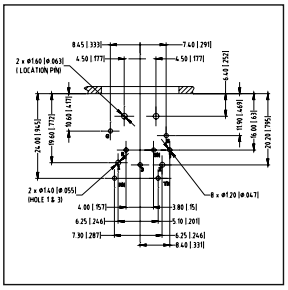
ACJC10V & ACJC10VL



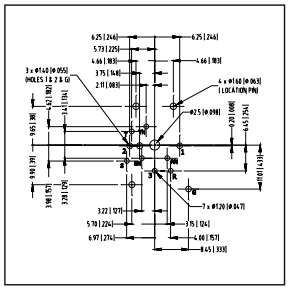
ACJC6AH & ACJC6AHL



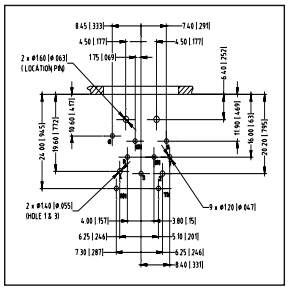
ACJC6AV & ACJC6AVL



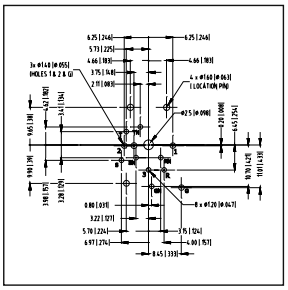
ACJC9AH & ACJC9AHL



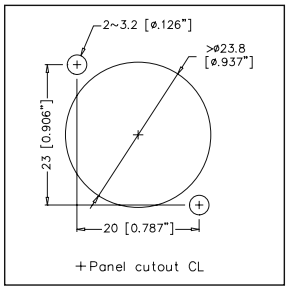
ACJC9AV & ACJC9AVL



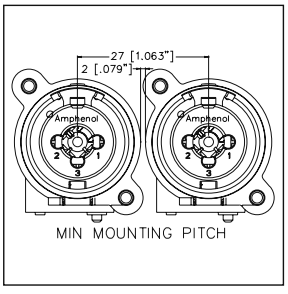
ACJC10AH & ACJC10AHL



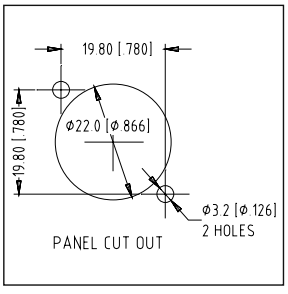
ACJC10AV & ACJC10AVL



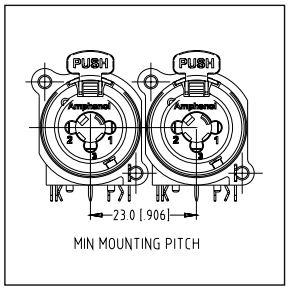
C TYPE PANEL CUTOUT



C TYPE MOUNTING PITCH



C TYPE LOW PROFILE PANEL CUTOUT



C TYPE LOW PROFILE MOUNTING PITCH

Amphenol

STANDARD DATA C TYPE CHASSIS RECEPTACLES

		VALUE	
		LOW PROFILE TYPE	STANDARD C TYPE
GENERAL CHARACTERISTICS	Number of contacts	5, 6, 9 or 10	
	Termination	Printed Circuit Board (PCB)	Printed Circuit Board (PCB) or Solder Bucket
	Flammability	UL 94HB	
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU	
ELECTRICAL CHARACTERISTICS	Service Voltage RMS	50V	
	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 CHARACTERISTICS	Protection Class	IP40	
	Operating Temperature	-25˚C to +70˚C	
MECHANICAL CHARACTERISTICS	Weight**	9.2g (0.02lb)	14g (0.030lb)
	Retention Spring separating force	≥20N	
	Mounting Screw 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 Shell Finish	PA6.6 + 30% glass fibre reinforced, UL94HB	PA6.6 + 20% glass fibre reinforced, UL94HB Black
	Insulators	PA6.6 glass fibre reinforced, UL94HB	PA6.6 + 20% glass fibre reinforced, UL94HB
	XLR Contact Material Plating	Bronze Gold over Nickel plated	
	Jack Contact Material Plating	Bronze Gold over Nickel plated	Brass Silver over Copper plated
	Latch lock and Spring	Nickel Plated	
	Ground element	Nickel Plated	Silver over Copper plated

Rev 6 - 03/2013

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

***Refer to page 137

AC SERIES XLR THERMOPLASTIC CHASSIS MOUNT CONNECTORS

This receptacle is manufactured from glass filled UL94V-0 PBT Resin, and provides a lower cost alternative to the 'Z' series metal shell. 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.
- 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
- 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.

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.

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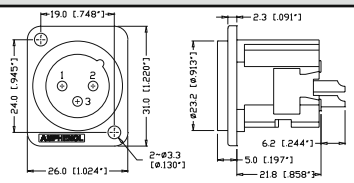
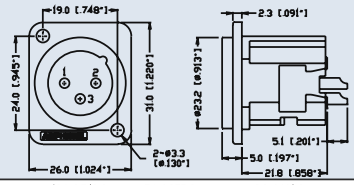
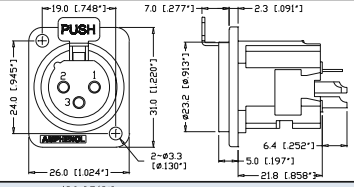
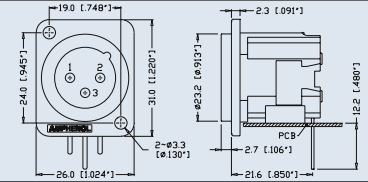
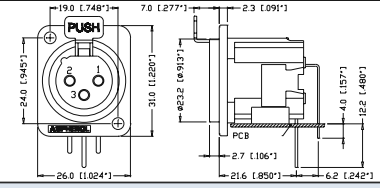
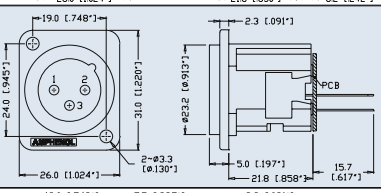
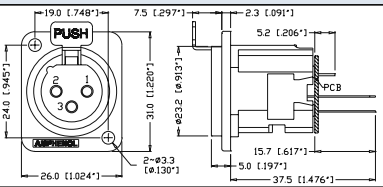
THERMOPLASTIC D - TYPE FLANGE

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.

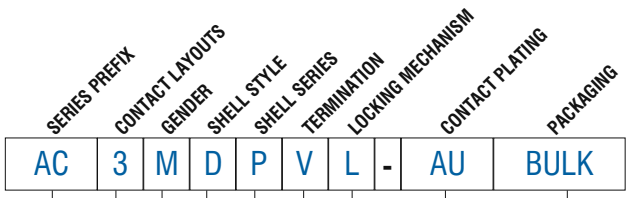
Options: Solder Buckets, Vertical or Horizontal PCB, Bulk Pack, Latching or Non-latching, Gold Plated Contacts, Machined Contacts.

Specifications: 64 **Part Number Breakdown: 61**
PCB Footprints: 65 **Panel Cutouts: 65**

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole male, D Flange, Thermoplastic shell, Solder Buckets	Standard	AC3MDP
			Bulk Pack	AC3MDP BULK
			Non-Latching	AC3MDPL
			Non-Latching Bulk	AC3MDPL BULK
		XLR 3 pole male, D Flange, Airtight Thermoplastic shell, Machined Contacts, Solder Buckets	Standard	AC3MMDP
			Bulk Pack	AC3MMDP BULK
			Non-Latching	AC3MMDPL
			Non-Latching Bulk	AC3MMDPL BULK
		XLR 3 pole female, D Flange, Thermoplastic shell, Solder Buckets	Standard	AC3FDP
			Bulk Pack	AC3FDP BULK
			Non-Latching	AC3FDPL
			Non-Latching Bulk	AC3FDPL BULK
		XLR 3 pole male, D Flange, Thermoplastic shell, Horizontal PCB mount	Standard	AC3MDPH
			Bulk Pack	AC3MDPH BULK
			Non-Latching	AC3MDPHL
			Non-Latching Bulk	AC3MDPHL BULK
		XLR 3 pole female, D Flange, Thermoplastic shell, Horizontal PCB mount	Standard	AC3FDPH
			Bulk Pack	AC3FDPH BULK
			Non-Latching	AC3FDPHL
			Non-Latching Bulk	AC3FDPHL BULK
		XLR 3 pole male, D Flange, Thermoplastic shell, Vertical PCB mount	Standard	AC3MDPV
			Bulk Pack	AC3MDPV BULK
			Non-Latching	AC3MDPVL
			Non-Latching Bulk	AC3MDPVL BULK
		XLR 3 pole female, D Flange, Thermoplastic shell, Vertical PCB mount	Standard	AC3FDPV
			Bulk Pack	AC3FDPV BULK
			Non-Latching	AC3FDPVL
			Non-Latching Bulk	AC3FDPVL BULK

PART NUMBER BREAKDOWN

THERMOPLASTIC D TYPE FLANGE



E. G . **AC3MDPVL-AU BULK**
AC (Series Prefix),**3** contacts, **M**ale, **D** (Small Shell), **P** (Thermoplastic Chassis series) **V**ertical Printed Circuit Board, **L**atchless - **AU** (Gold Plated Contacts), **Bulk** Packaged.

SERIES PREFIX	AC	=	Series Prefix
CONTACT LAYOUT	3	=	3 Contacts only
GENDER	F	=	Female Socket Contacts
	M	=	Male Pin Contacts
	MM	=	Male Machined Contacts
SHELL STYLE	D	=	Small Shell
SHELL SERIES	P	=	Thermoplastic Chassis Series
TERMINATION	Blank	=	Solder Buckets
	V	=	Vertical Printed Circuit Board
	H	=	Horizontal Printed Circuit Board
LOCKING MECHANISM	Blank	=	Latching
	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

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THERMOPLASTIC TYPE - IDC (SOLDERLESS)

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.

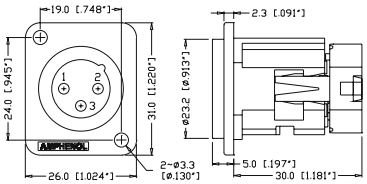
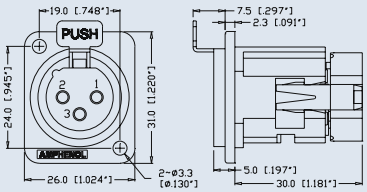
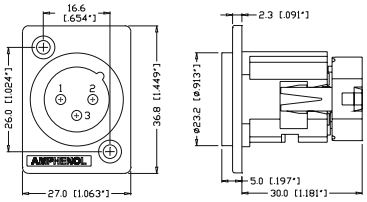
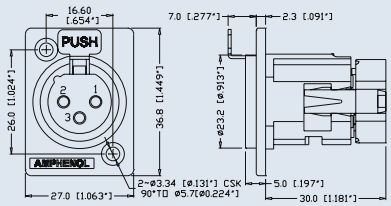
Recommended Cable Specifications: page 64

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

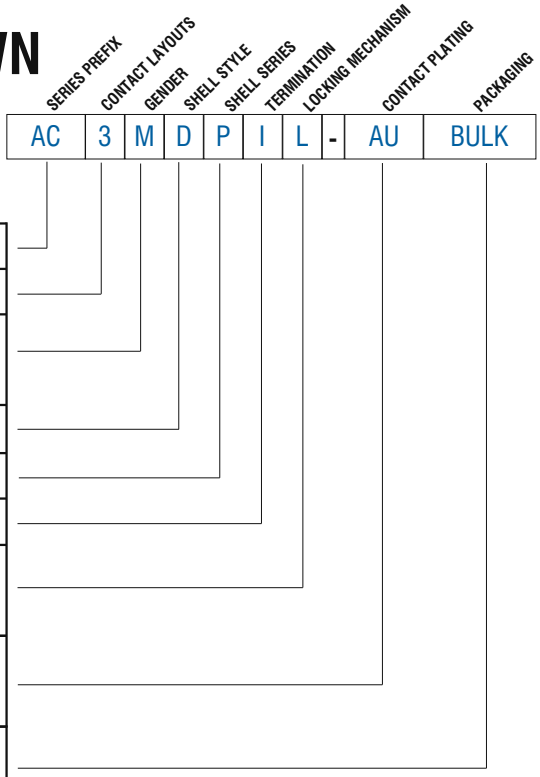
Part Number Breakdown: page 63 **Specifications: page 64**
Assembly Instructions: page 66 **Panel Cutouts: page 65**

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole male, D Flange, IDC contacts, Thermoplastic shell	Standard	AC3MDPI
			Bulk Pack	AC3MDPI BULK
			Non-Latching	AC3MDPIL
			Non-Latching Bulk	AC3MDPIL BULK
		XLR 3 pole female, D Flange, IDC contacts, Thermoplastic shell	Standard	AC3FDPI
			Bulk Pack	AC3FDPI BULK
			Non-Latching	AC3FDPIL
			Non-Latching Bulk	AC3FDPIL BULK
		XLR 3 pole male, Wide Flange, IDC contacts, Thermoplastic shell	Standard	AC3MPPI
			Bulk Pack	AC3MPPI BULK
			Non-Latching	AC3MPPIL
			Non-Latching Bulk	AC3MPPIL BULK
		XLR 3 pole female, Wide Flange, IDC contacts, Thermoplastic shell	Standard	AC3FPPI
			Bulk Pack	AC3FPPI BULK
			Non-Latching	AC3FPPIL
			Non-Latching Bulk	AC3FPPIL BULK

PART NUMBER BREAKDOWN

IDC D AND P THERMOPLASTIC CHASSIS TYPE

E. G . **AC3MDPIL-AU BULK**
AC (series prefix),**3** contacts, **M**ale, **D** Flange, **P**lastic Shell, IDC, **L**atchless,
- **AU** (Gold Plated Contacts), **Bulk** Packaged.



SERIES PREFIX	AC	=	Series Prefix
CONTACT LAYOUT	3	=	3 Contacts only
GENDER	F	=	Female Socket Contacts
	M	=	Male Pin Contacts
SHELL STYLE	D	=	D Flange
SHELL SERIES	P	=	Thermoplastic Chassis Series
TERMINATION	I	=	IDC Termination
LOCKING MECHANISM	Blank	=	Latching
	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

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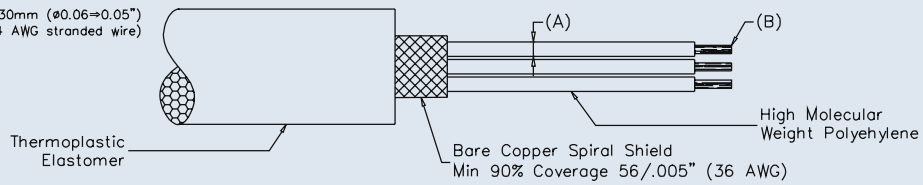
STANDARD DATA AC CHASSIS - THERMOPLASTIC

		VALUE
GENERAL CHARACTERISTICS	Number of contacts	3
	AC Series Contact Arrangements (Front view of pin inserts)	
	Termination	Solder / IDC / Printed Circuit Board (PCB)
	Wire Gauge - Stranded wire: IDC Solder Printed Circuit Board (PCB)	 24AWG 12AWG N/A
	Flammability	UL94V-0
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU
ELECTRICAL CHARACTERISTICS	Service Voltage RMS	133V [1]
	Test Voltage AC RMS	1400V
	Current carrying capacity: IDC Solder Printed Circuit Board (PCB)	 1A 15A 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 [2]	14g - (0.030lb)
	Mechanical Operations	1000 mating cycles
MATERIALS	Connector Shell - Thermoplastic Shell Finish	Thermoplastic, ULV94V-0 Modified PPE Resin 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 – OD ø1.50⇒1.30mm (ø0.06⇒0.05") B – 16/.005" (24 AWG stranded wire)	

[1] Not suitable for domestic applications above 50V
[2] Approximate weight in grams does not include packaging. Please contact us for exact weight for shipping purposes.

Rev 3 - 03/2013

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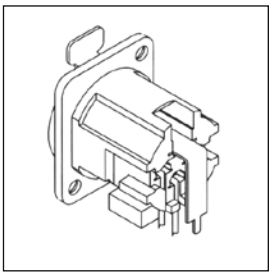
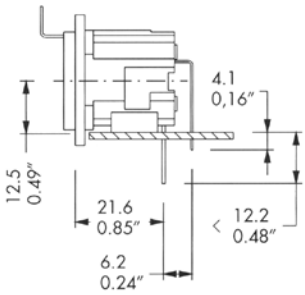
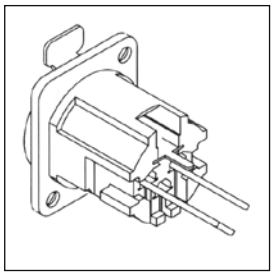
AC SERIES RECEPTACLES THERMOPLASTIC

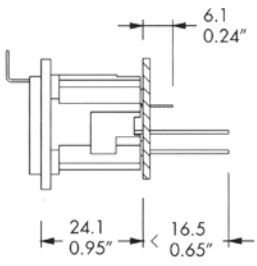
MOUNTING INFORMATION





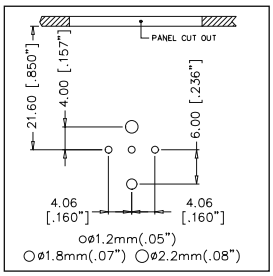
'D' SERIES
90˚ PCB (H)



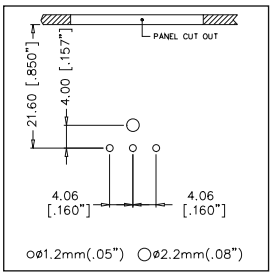


'D' SERIES
STRAIGHT PCB (V)

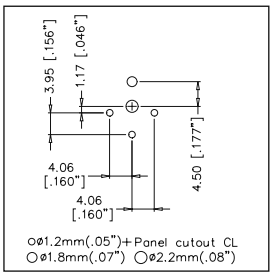
PCB FOOTPRINT
- CONNECTOR SIDE OF PCB



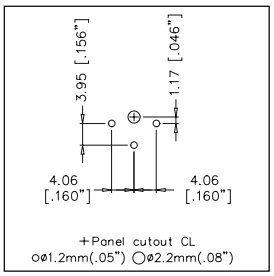
AC3FDPH



AC3MDPH

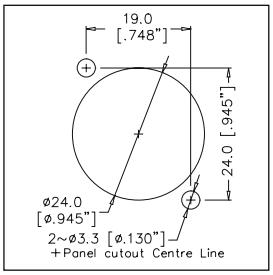


AC3FDPV



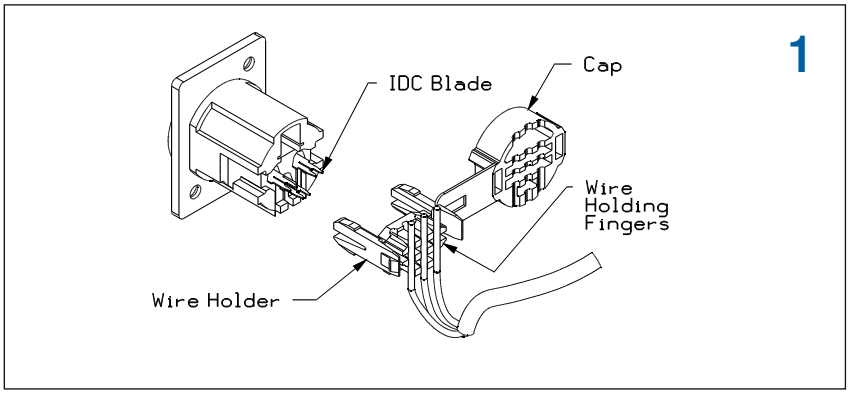
AC3MDPV

PANEL CUTOUT DIMENSIONS - FRONT VIEW

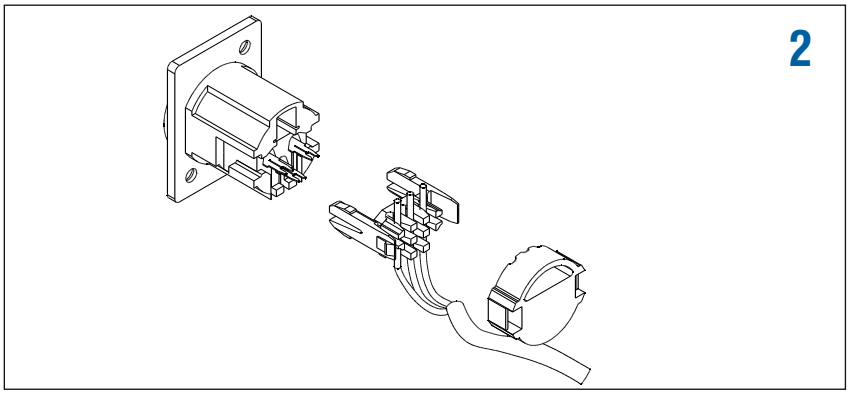


AC3FDP / AC3MDP

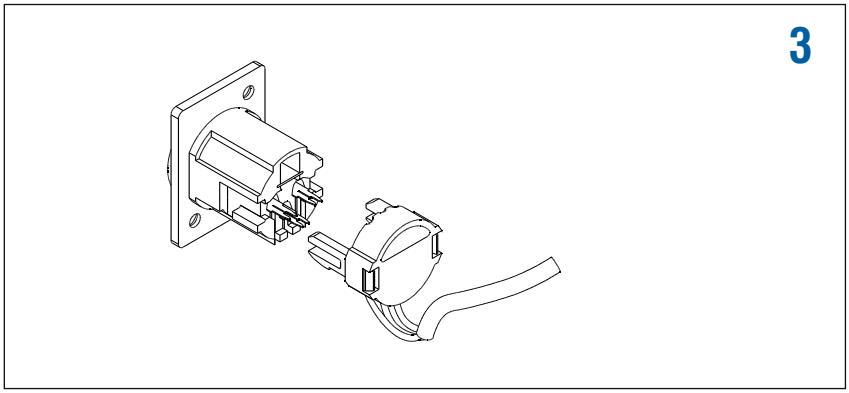
AC IDC SERIES CHASSIS ASSEMBLY INSTRUCTIONS



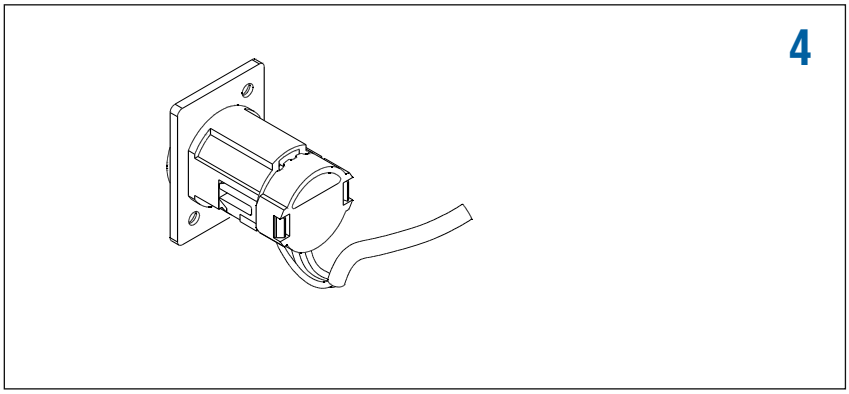
Lay the insulated conductors between the wire holding fingers. The fingers will retain the wire if it is inserted sufficiently.



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.

SP/EP/AP SERIES HIGH POWER / LOUDSPEAKER CONNECTORS

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.
- SP Series with overmolded cable support boot or PG gland with or without cable support strain relief.
- 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, Screw Terminals (SP Series)
- Nickel Plated Zinc Alloy shell (EP/SP Series)
- Black finished Zinc Alloy shell (EP/SP Series)
- Precision machined contacts
- Thermoplastic shell (AP/SP Series)

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

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EP AP

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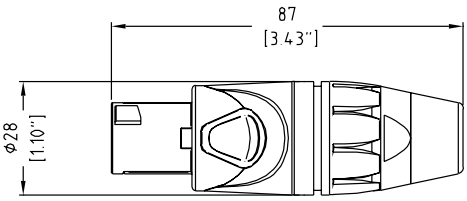
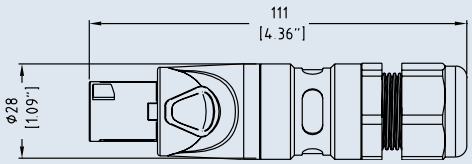
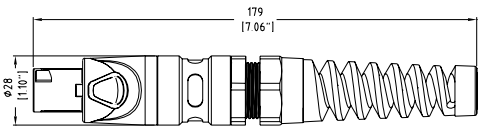
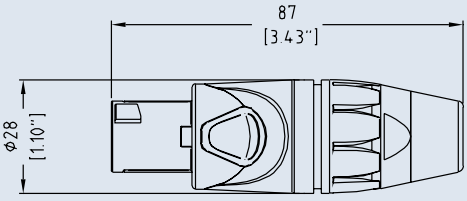
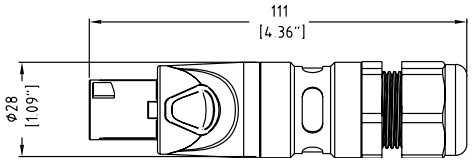
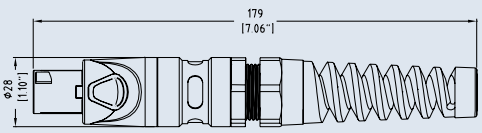
SP SERIES LOUDSPEAKER CONNECTORS

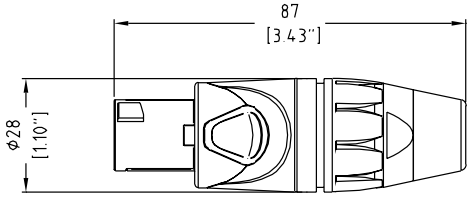
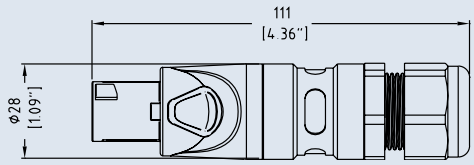
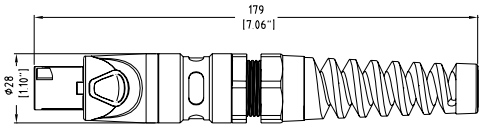
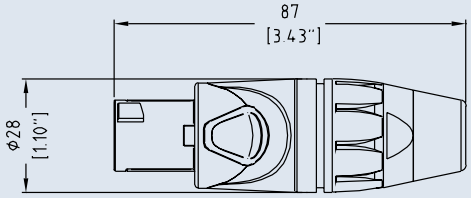
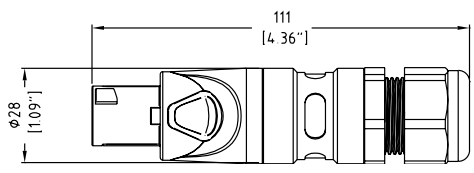
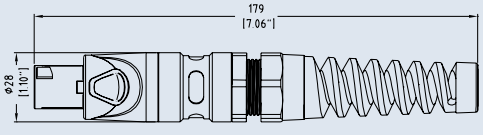
Amphenol's range of loudspeaker connectors have been further enhanced with the introduction of the SP Series. Designed to complement the popular EP/AP Series, we now offer a range of loudspeaker connectors to suit most applications. SP Series chassis connectors are available in industry standard PCB footprints with solder tabs. SP Series cable plugs are available with screw or solder terminals.

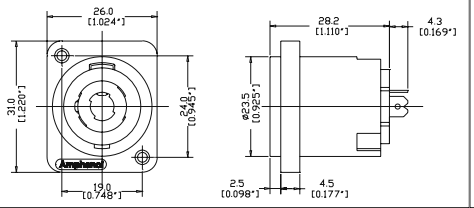
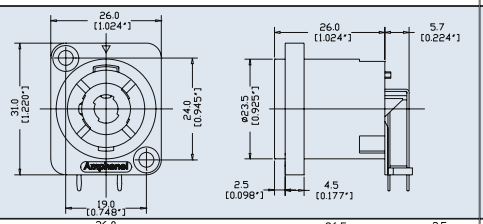
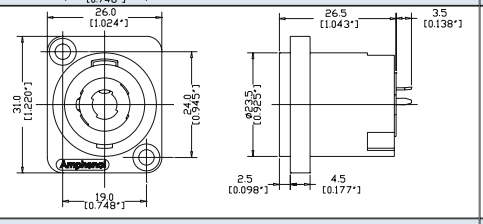
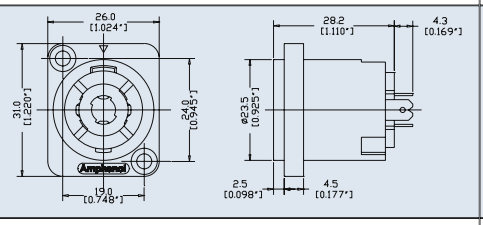
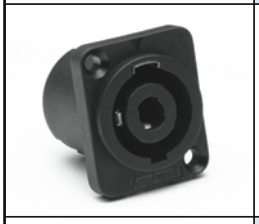
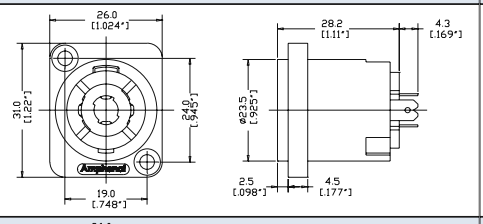
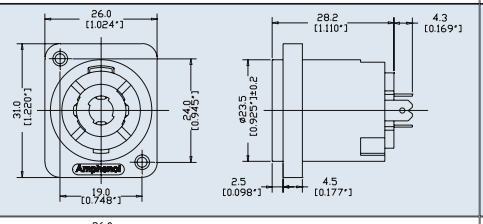
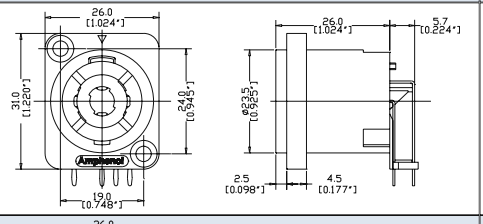
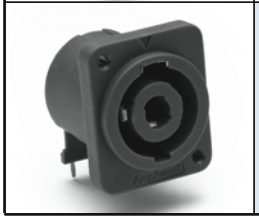
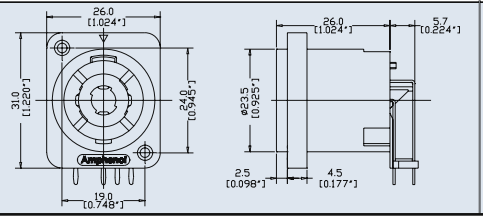
Features:

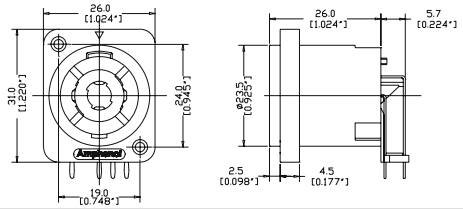
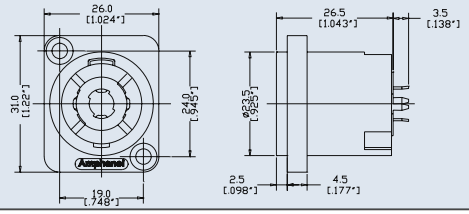
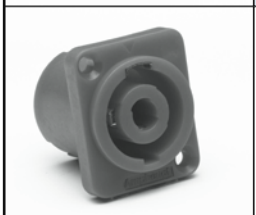
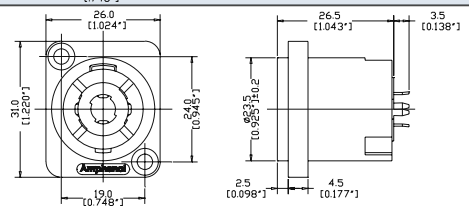
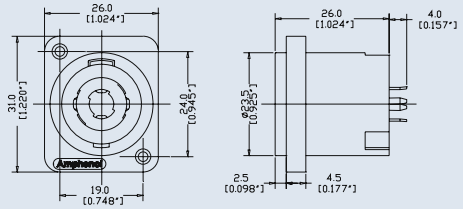
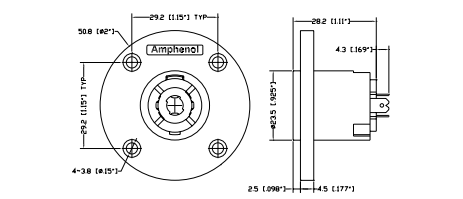
- Quick release, vibration resistant latch lock
- 2 or 4 pole
- Solder tabs, PCB Contacts, Solder or Screw Terminals
- Chuck type or PG Gland cable clamp
- Various mounting hole options
- 30A Current rating
- Thermoplastic or Metal housing (Cable Plugs)
- Industry standard mating

Part Number Breakdown: page 72 **Specifications: page 75**
PCB Footprints: page 74

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	CONTACT TYPE	SHELL COLOUR	PART NUMBER
		2 pole, Cable connector, Thermoplastic shell, Blue sleeve	Screw	Black	SP-2-F
			Solder	Black	SP-2-FS
		2 pole, Cable connector, Thermoplastic shell, Blue sleeve, PG Gland	Screw	Black	SP-2-FG
			Solder	Black	SP-2-FSG
		2 pole, Cable connector, Thermoplastic shell, Blue sleeve, PG Gland strain relief	Screw	Black	SP-2-FL
			Solder	Black	SP-2-FSL
		2 pole, Cable connector, Metal shell, Blue sleeve	Screw	Nickel	SP-2-FN
			Solder	Nickel	SP-2-FNS
			Screw	Black	SP-2-FB
			Solder	Black	SP-2-FBS
		2 pole, Cable connector, Metal shell, Blue sleeve, PG Gland	Screw	Nickel	SP-2-FNG
			Solder	Nickel	SP-2-FNSG
			Screw	Black	SP-2-FBG
			Solder	Black	SP-2-FBSG
		2 pole, Cable connector, Metal shell, Blue sleeve, PG Gland strain relief	Screw	Nickel	SP-2-FNL
			Solder	Nickel	SP-2-FNSL
			Screw	Black	SP-2-FBL
			Solder	Black	SP-2-FBSL

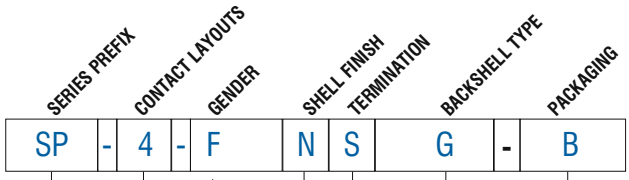
PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	CONTACT TYPE	SHELL COLOUR	PART NUMBER
		4 pole, Cable connector, Thermoplastic black shell, Blue sleeve	Screw	Black	SP-4-F
			Solder	Black	SP-4-FS
		4 pole, Cable connector, Thermoplastic black shell, Blue sleeve, PG Gland	Screw	Black	SP-4-FG
			Solder	Black	SP-4-FSG
		4 pole, Cable connector, Thermoplastic black shell, Blue sleeve, PG Gland strain relief	Screw	Black	SP-4-FL
			Solder	Black	SP-4-FSL
		4 pole, Cable connector, Metal shell, Blue sleeve	Screw	Nickel	SP-4-FN
			Solder	Nickel	SP-4-FNS
			Screw	Black	SP-4-FB
			Solder	Black	SP-4-FBS
		4 pole, Cable connector, Metal shell, Blue sleeve, PG Gland	Screw	Nickel	SP-4-FNG
			Solder	Nickel	SP-4-FNSG
			Screw	Black	SP-4-FBG
			Solder	Black	SP-4-FBSG
		4 pole, Cable connector, Metal shell, Blue sleeve, PG Gland strain relief	Screw	Nickel	SP-4-FNL
			Solder	Nickel	SP-4-FNSL
			Screw	Black	SP-4-FBL
			Solder	Black	SP-4-FBSL

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		2 pole, D flange, Thru holes, Solder tabs 3/16”	Black	SP-2-MD
		2 pole, D flange, Thru holes, Horizontal PCB	Black	SP-2-MDH
		2 pole, D flange, Thru holes, Vertical PCB	Black	SP-2-MDV
		4 pole, D flange, Thru holes, Solder tabs 3/16”	Black	SP-4-MD
		4 pole, D flange, Thru holes, Solder tabs 3/16”	Grey	SP-4-MD-8
		4 pole, D flange, Self Tapping holes, Solder tabs 3/16”	Black	SP-4-MDT
		4 pole, D flange, Thru holes, Horizontal PCB	Black	SP-4-MDH
		4 pole, D flange, Self Tapping holes, Horizontal PCB	Grey	SP-4-MDHT-8

PRODUCT - FIGURE		DESCRIPTION	VARIATIONS	PART NUMBER
		4 pole, D flange, Self Tapping holes, Horizontal PCB	Black	SP-4-MDHT
		4 pole, D flange, Thru holes, Vertical PCB	Black	SP-4-MDV
		4 pole, D flange, Thru holes, Vertical PCB	Red	SP-4-MDV-2
		4 pole, D flange, Self Tapping holes, Vertical PCB	Grey	SP-4-MDVT-8
		4 pole, EP flange, Thru holes, Solder tabs 3/16”	Black	SP-4-MC

PART NUMBER BREAKDOWN

SP SERIES - CABLE CONNECTORS

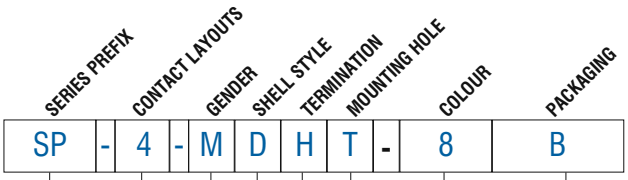


E. G . **SP-4-FNSG**
SP (Series Prefix), **4** contacts, **F** (Cable Connector), **N** (Metal Shell Nickel Finish), **S** (Solder Terminals), **G** (PG Gland)

SERIES PREFIX	SP	=	Series Prefix
CONTACT LAYOUT	2	=	2 Contacts
	4	=	4 Contacts
GENDER	F	=	Cable Connector
SHELL FINISH	Blank	=	Thermoplastic - Black
	N	=	Metal - Nickel Finish
	B	=	Metal - Black Finish
TERMINATION	Blank	=	Screw Terminals
	S	=	Solder Terminals
BACKSHELL TYPE	Blank	=	Standard
	G	=	PG Gland
	L	=	PG Gland Strain Relief
PACKAGING BACK-SHELL COLOUR	1	=	Brown
	2	=	Red
	3	=	Orange
	4	=	Yellow
	5	=	Green
	6	=	Blue
	7	=	Violet
	8	=	Grey
	9	=	White
PACKAGING	Blank	=	Individual Bags
	B	=	Bulk Packed

PART NUMBER BREAKDOWN

SP SERIES - CHASSIS CONNECTORS

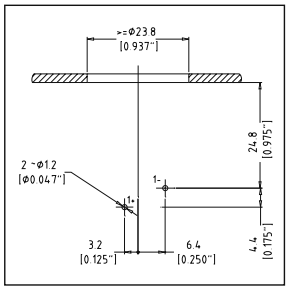


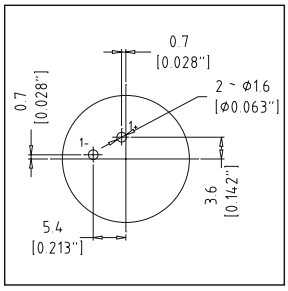
E. G . **SP-4-MDHT-8B**
SP (Series Prefix),**4** contacts, **M**(Chassis Connector), **D** (D Shell), **H**orizontal Printed Circuit Board, Self Tapping mounting holes - **8** (Grey), **B**ulk Packaged.

SERIES PREFIX	SP	=	Series Prefix
CONTACT LAYOUT	2	=	2 Contacts
	4	=	4 Contacts
GENDER	M	=	Chassis Connector
SHELL STYLE	D	=	Standard 'D' Type flange
	C	=	EP Series Circular flange
TERMINATION	Blank	=	Solder tabs - 3/16" terminals
	V	=	Vertical Printed Circuit Board
	H	=	Horizontal Printed Circuit Board
MOUNTING HOLE	Blank	=	Thru Hole
	T	=	Self Tapping
SHELL COLOUR	Blank	=	Black
	2	=	Red
	8	=	Grey
PACKAGING	Blank	=	Individual Bags
	B	=	Bulk Packed

SP SERIES

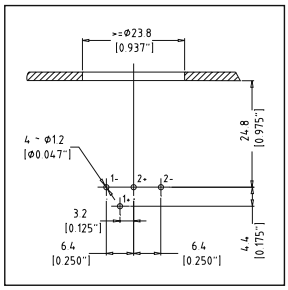
SP-2-MDH

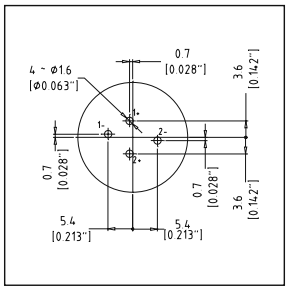




SP-2-MDV

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

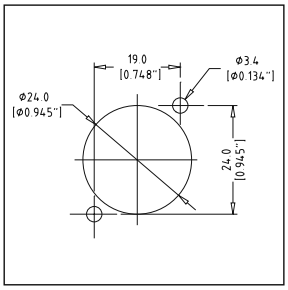


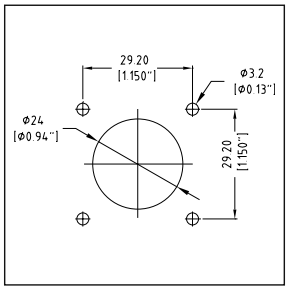


SP-4-MDV
SP-4-MDV-2
SP-4-MDVT-8

SP SERIES PANEL CUTOUT

SP-2-MD_*
SP-4-MD_*





SP-4-MC

STANDARD DATA SP SERIES CONNECTORS

		VALUE	
GENERAL CHARACTERISTICS	Number of contacts	2 or 4	
	Termination (Chassis)	Printed Circuit Board (PCB) or Solder Tabs 3/16"	
	Termination (Cable Plugs)	Screw or Solder Terminals	
	Flammability	UL94HB	
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU	
ELECTRICAL CHARACTERISTICS	Service Voltage RMS	133V [1)]	
	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 CHARACTERISTICS	Protection Class	IP54	
	Operating Temperature	-25˚C to +75˚C (-13°F to +167°F)	
MECHANICAL CHARACTERISTICS	Weight** - Chassis Connectors	12g (0.026lb)	
	Weight** - Cable Plug - Thermoplastic - Metal	 44g (0.097lb) 65g (0.143lb)	
	Weight** - Cable Plug PG - Thermoplastic - Metal	 44g (0.097lb) 65g (0.143lb)	
	Weight** - Cable Plug PG S/Relief - Thermoplastic - Metal	 68g (0.150lb) 89g (0.196lb)	
	Typical Cable retention force	200N (Subject to cable material and O.D.)	
	Cable O.D range - Chuck Clamp - PG16 Gland - PG16 Gland S/Relief	2 pole 5-10mm (0.19" - 0.39") 6-12mm (0.23" - 0.47") 9-14mm (0.35" - 0.55")	4 pole 9-14mm (0.35" - 0.55") 8-14mm (0.31" - 0.55") 9-14mm (0.35" - 0.55")
	Mechanical Operations	5000	
	Fastening (Chassis Self Tapping)	M3 screw	
MATERIALS	Connector Shell / Finish - Chassis - Cable Plug Thermoplastic - Cable Plug Metal	 PA66 GF20 / Black PA66 GF30 / Black Diecast Zinc Alloy / Nickel or Black	
	Insulators - Chassis - Cable Plugs	 PA66 GF20 PA66 GF30	
	Cable Boot / Backshell	Santoprene / PA6 GF 15	
	Cable Clamp (Chuck)	P.O.M	
	Cable Clamp (PG)	Polyemide / EPDM	
	Sleeve	PBT	
	Contact Chassis - Material / Plating Contact Cable Plug - Material / Plating	 Phosphor Bronze / Silver Brass / Silver	

[1)] Not suitable for domestic applications above 50V

EP AP

Rev 5 - 03/2013

Amphenol

EP METAL TYPE - SOLDER

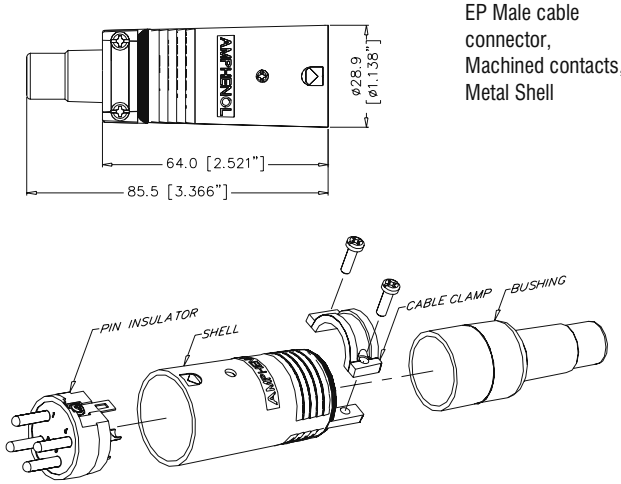
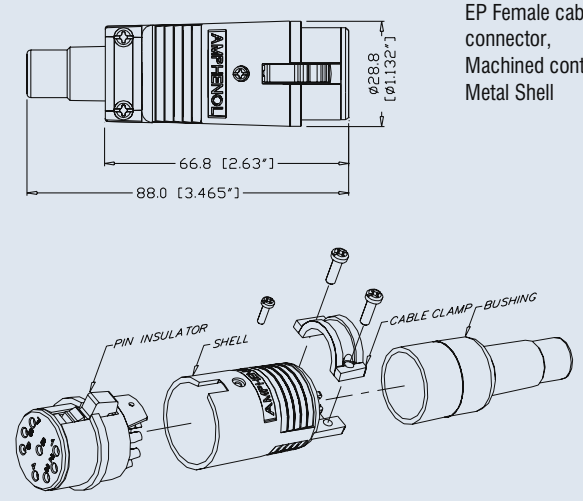
The EP Series has set the standard in high performance speaker connectors. Apart from its durability and strength, it offers consistent superior power handling capabilities.

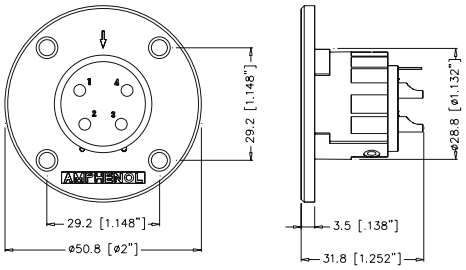
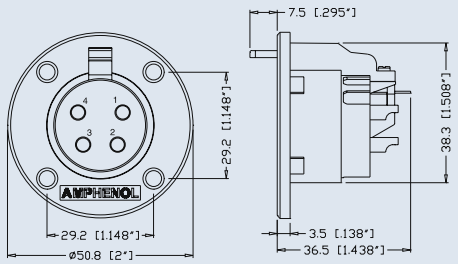
Features:

- Solder Bucket connections.
- Precision machined contacts.
- Diecast Metal Housings
- High current contacts
- Male and female cable and chassis connectors available.

Options: Black Finish Shell **Specifications: page 79**

Panel Cutouts: page 80

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
ISO ASSEMBLY OF EP MALE		EP Male cable connector, Machined contacts, Metal Shell	3 pole nickel finish	EP-3-12
			3 pole black finish	EP-3-12B
			4 pole nickel finish	EP-4-12
			4 pole black finish	EP-4-12B
			5 pole nickel finish	EP-5-12
			5 pole black finish	EP-5-12B
			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
ISO ASSEMBLY OF EP FEMALE		EP Female cable connector, Machined contacts, Metal Shell	3 pole nickel finish	EP-3-11P
			3 pole black finish	EP-3-11PB
			4 pole nickel finish	EP-4-11P
			4 pole black finish	EP-4-11PB
			5 pole nickel finish	EP-5-11P
			5 pole black finish	EP-5-11PB
			6 pole nickel finish	EP-6-11P
			6 pole black finish	EP-6-11PB
			8 pole nickel finish	EP-8-11P
			8 pole black finish	EP-8-11PB

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		EP Male chassis mount, Round Flange, Machined contacts, Metal Shell	3 pole nickel finish	EP-3-14
			3 pole black finish	EP-3-14B
			4 pole nickel finish	EP-4-14
			4 pole black finish	EP-4-14B
			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
		EP Female chassis mount, Round Flange, Machined contacts, Metal Shell	3 pole nickel finish	EP-3-13P
			3 pole black finish	EP-3-13PB
			4 pole nickel finish	EP-4-13P
			4 pole black finish	EP-4-13PB
			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

Amphenol

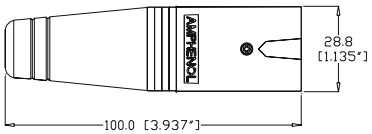
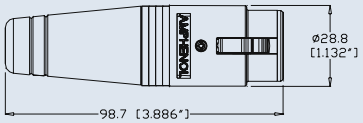
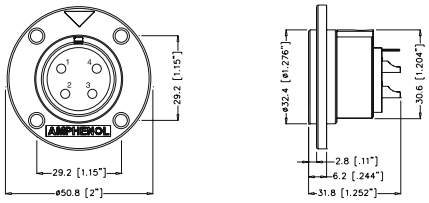
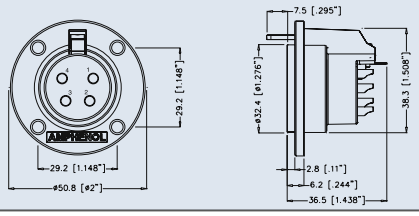
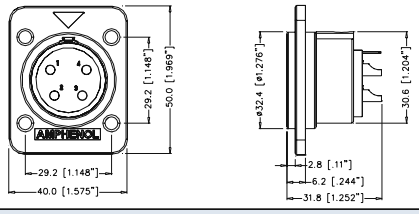
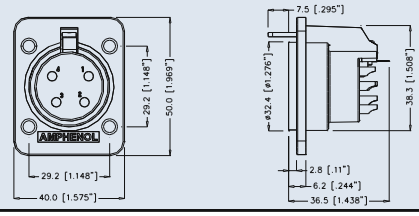
AP THERMOPLASTIC TYPE - SOLDER

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

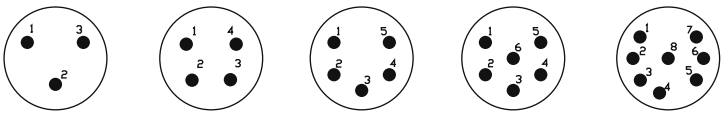
Features:

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

Specifications: page 79 **Panel Cutouts: page 80**

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		AP Male cable connector, Machined contacts, Thermoplastic Black shell.	4 pole	AP-4-12
			5 pole	AP-5-12
			6 pole	AP-6-12
			8 pole	AP-8-12
		AP Female cable connector, Machined contacts, Thermoplastic Black shell.	4 pole	AP-4-11
			5 pole	AP-5-11
			6 pole	AP-6-11
			8 pole	AP-8-11
		AP Male chassis mount, Round Flange, Machined contacts, Thermoplastic Black shell.	4 pole	AP-4-14
			5 pole	AP-5-14
			6 pole	AP-6-14
			8 pole	AP-8-14
		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
			8 pole	AP-8-13
		AP Male chassis mount, Rectangular Flange, Machined contacts, Thermoplastic Black shell.	4 pole	AP-4-22
			5 pole	AP-5-22
			6 pole	AP-6-22
			8 pole	AP-8-22
		AP Female chassis mount, Rectangular Flange, Machined contacts, Thermoplastic Black shell.	4 pole	AP-4-21
			5 pole	AP-5-21
			6 pole	AP-6-21
			8 pole	AP-8-21

STANDARD DATA EP/AP

		VALUE				
GENERAL CHARACTERISTICS	Number of contacts	3	4	5	6	8
	Contact Arrangements (Front view of pin insert)					
	Termination	SOLDER				
	Wire Gauge - Stranded wire:	12AWG	12AWG	12AWG	12AWG	14AWG
	Flammability	UL94V-0				
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU				
ELECTRICAL CHARACTERISTICS	Service Voltage RMS [1)]	460V	660V	200V	200V	100V
	Test Voltage AC RMS	2400V	3000V	1600V	1600V	1300V
	Current carrying capacity	20A	20A	20A	20A	15A
	Typicial Contact Resistance	≤3mΩ				
	Insulation Resistance	≥1000MΩ				
CLIMATIC CHARACTERISTICS	Protection Class	IP40				
	Operating Temperature	-25˚C to +75˚C (-13°F to +167°F)				
MECHANICAL CHARACTERISTICS	Weight - EP 11 & 12 [2)]	80g (0.176lb)	84g (0.185lb)	86g (0.189lb)	86g (0.189lb)	86g (0.189lb)
	Weight - EP 13 & 14 [2)]	48g (0.105lb)	50g (0.110lb)	54g (0.119lb)	54g (0.119lb)	54g (0.119lb)
	Weight - AP 11 & 12 [2)]	N/A	42g (0.092lb)	44g (0.097lb)	44g (0.097lb)	44g (0.097lb)
	Weight - AP 13, 14, 21 & 22 [2)]	N/A	26g (0.057lb)	30g (0.066lb)	30g (0.066lb)	28g (0.061lb)
	Typical Cable retention force	22Kg to 44Kg (50lb to 100lb) - Dependant on cable material and diameter				
	Mechanical operations	1000 mating cycles				

[1)] Not suitable for domestic applications above 50V

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

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STANDARD DATA EP/AP (CONT'D)

		DETAILS	
MATERIALS	TYPE	**AP**	**EP**
	Connector shell	Modified PPE Resin	Diecast Zinc Alloy
	Shell finish	Black	Satin Nickel or Black
	Insulators	UL94V-0 PBT Resin	
	Cable Bushing	Silicon Rubber	UL94 HB Thermoplastic Elastomer
	Male contact Machined - Solder Material / Plating	Brass / Bright Tin	
	Female contact Machined - Solder Material / Plating	Brass / Bright Tin	
CLAMPING CHARACTERISTICS	Cable OD Range	11mm to 17mm (0.43" to 0.67")	9mm to 16mm (0.35" to 0.63")
	Retention Method	Two opposing plastic screws	Metal saddle clamp

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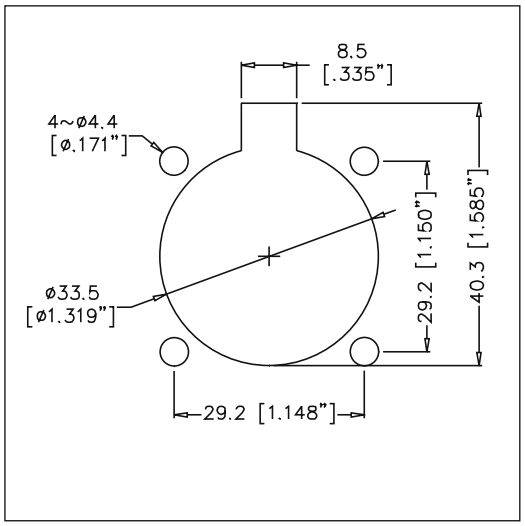
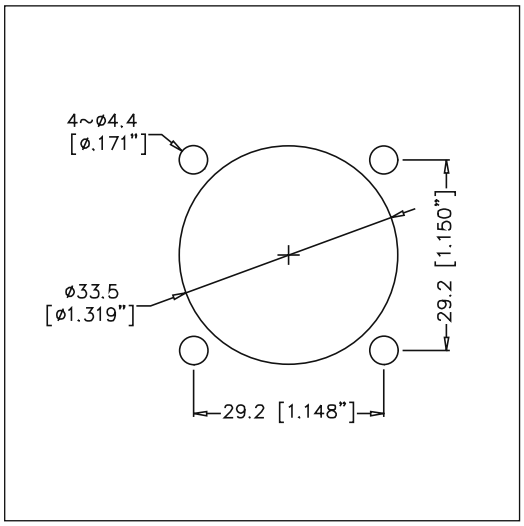
EP/AP SERIES PANEL CUTOUT DATA - FRONT VIEW

EP 13/AP 13/AP 21



EP 14/AP 14/AP 22



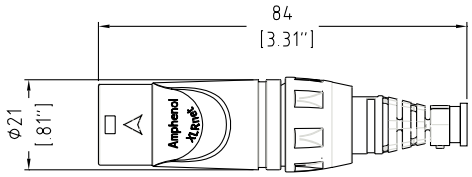
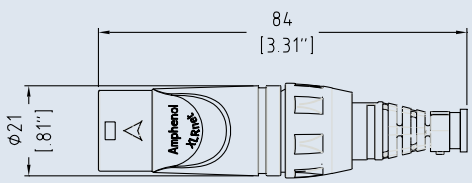
XLRnet SERIES

Features/Benefits:

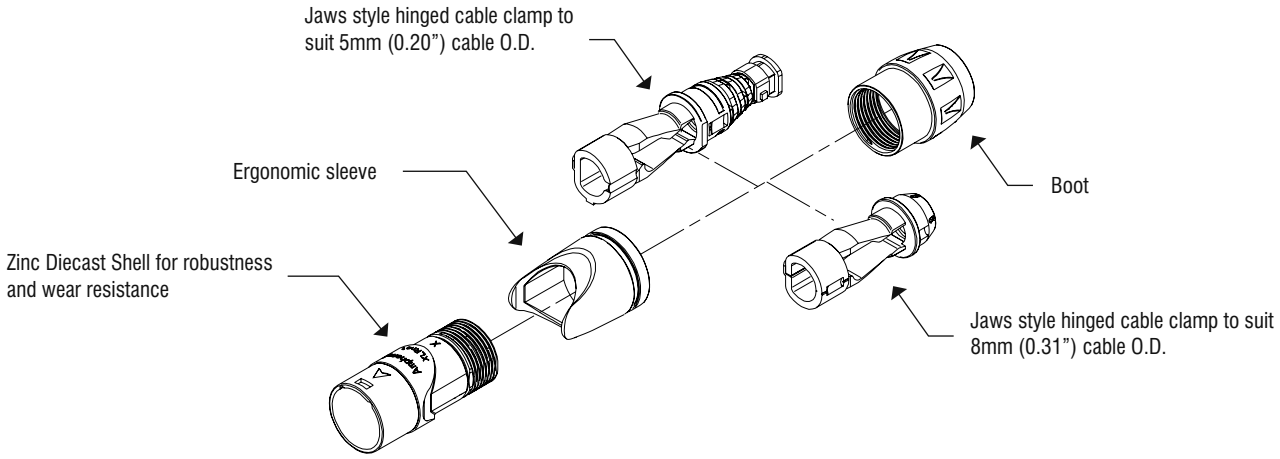
- XLR RJ45 Cable plug housing.
- Designed for pre-assembled RJ45 cables.
- Quick and simple installation.
- Cost effective method for harsh environments.
- No cabling in field required.
- No tools required for installation.
- Available in Nickel or Black housings.
- Coloured boots / Backshells

Specifications: page 82
Part Number Breakdown : page 82 **Assembly Instructions: page 83**

NOTE*RJ45 preassembled cable sold separately and is not included with the XLRnet connector.

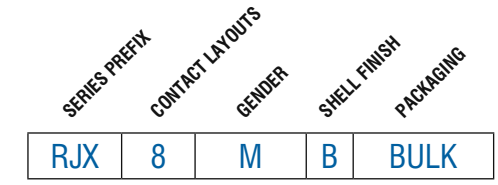
PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLRnet, XLR cable plug housing to suit preassembled RJ45 cables, Nickel Finish	Standard	RJX8M
			Bulk Pack	RJX8M BULK
		XLRnet, XLR cable plug housing to suit preassembled RJ45 cables, Black Finish	Standard	RJX8MB
			Bulk Pack	RJX8MB BULK

ISO VIEW OF RJX8M



PART NUMBER BREAKDOWN

XLRnet SERIES



E. G . **RJX8MB BULK**
RJX (Series Prefix), **8** contacts, **M** (Cable Connector), **B** (Black Finish),
Bulk Packaged

SERIES PREFIX	RJX	=	Series Prefix
CONTACT LAYOUT	8	=	RJ45 Cable Housing
GENDER	M	=	Male Cable Plug
SHELL FINISH	Blank	=	Nickel Plated Finish
	B	=	Metal - Black Finish
PACKAGING	Blank	=	Individual Bags
	BULK	=	Bulk Packed

STANDARD DATA XLRnet SERIES

		VALUE
GENERAL CHARACTERISTICS	Termination	Preassembled RJ45 Cable (Not supplied)
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU
CLIMATIC CHARACTERISTICS	Protection Class	IP40
	Operating Temperature	-25˚C to +75˚C (-13°F to -167°F)
MECHANICAL CHARACTERISTICS	Insertion and Withdrawal force	≥10N - ≤20N
	Weight [2]	26g (0.057lb)
	Cable O.D. range	5 or 8mm (0.20” or 0.31”)
	Mechanical Operations	1000 mating cycles
MATERIALS	Connector shell - Metal Shell finish	Diecast Zinc Alloy Satin nickel or Black
	Boot / Backshell Finish	UL94V-0 Noryl N190 / Valox Black
	Cable clamp	PA6
	Sleeve	Valox

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

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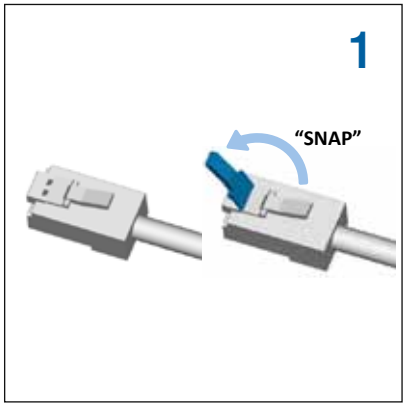
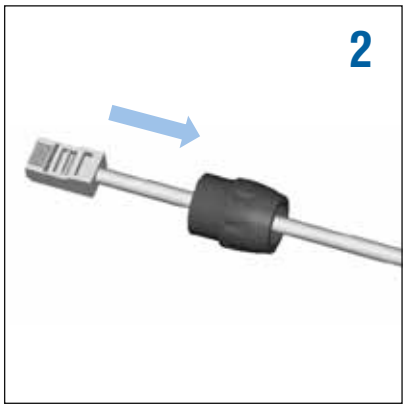
XLRnet SERIES CABLE ASSEMBLY INSTRUCTIONS



Snap or cut off release tab of the RJ45 plug.

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

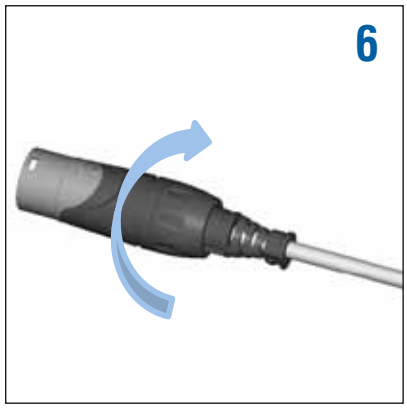


Slide the nut (backshell) onto the cable.

Install the cable clamp-boot.

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

Push clamp-boot & cable together into the shell



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

XLRnet CONNECTORS

XLRnet was designed in conjunction with the Amphenol Data / Telecom product group of Amphenol Canada Corp., a subsidiary of Amphenol Corporation. Utilising our combined expertise and knowledge of the professional audio and high-speed data markets we are proud to offer the XLRnet series. Featuring Class D or CAT 5E performance in A or B type housings with integrated LED's and complete shielding options we have your high-speed data requirements covered.

Features

- Class D or CAT 5E ethernet performance
- A or B type chassis housings
- Shielded or non-shielded
- LED indicators in a variety of colours.
- Compact design
- Cable plug housings
- Quick and simple installation

Options

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

Ordering Codes

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

Simple steps to guide you in using this catalogue

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.

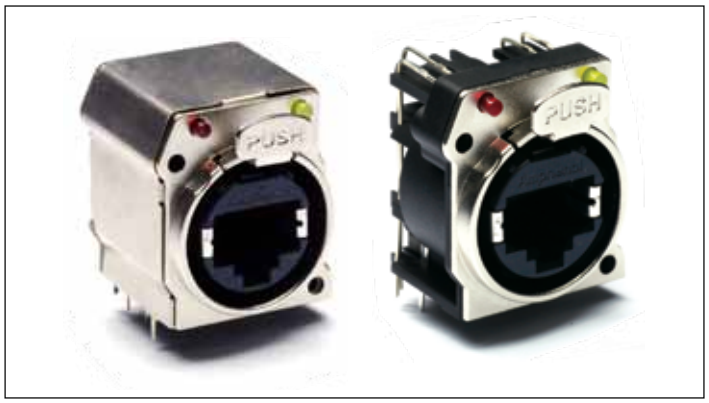
5) Use variations column to determine your choice.

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.

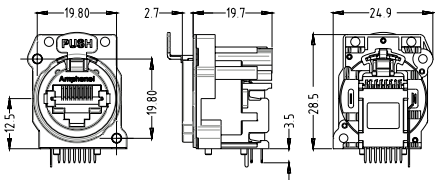
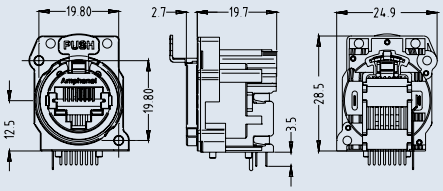
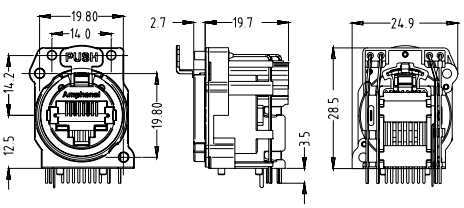
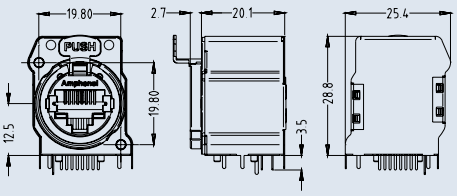
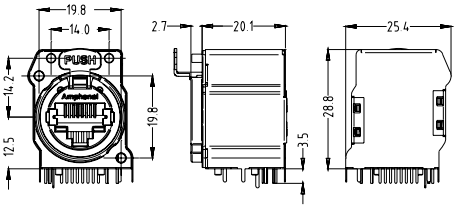
Amphenol



Features:

- RJ45 Class D or CAT 5e performance
- A or B type chassis housings
- Shielded or non-shielded
- LED indicators in a variety of colours.
- Horizontal PCB
- Mates with XLRnet cable plugs or standard RJ45 plug.

Part Number Breakdown: Page 86
Specifications: Page 88
PCB Footprints: Page 87
Recommended Fastener: Page 134

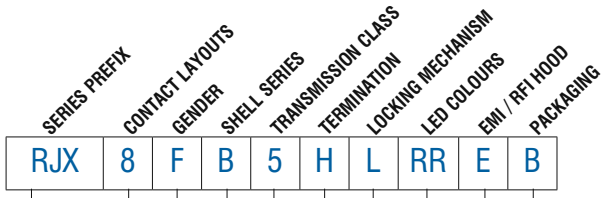
PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	PACK	LED* LHD	LED* RHD	PART NUMBER
		XLRnet chassis, Class D, A type, Horizontal PCB	Bulk Pack	-	-	RJX8FA3HB
		XLRnet chassis CAT 5e, B type, Horizontal PCB	Bulk Pack	-	-	RJX8FB5HB
		XLRnet chassis, CAT 5e, B type, LEDs, Horizontal PCB, Bulk packed	Bulk Pack	R	G	RJX8FB5HRGB
				R	Y	RJX8FB5HRYB
				R	R	RJX8FB5HRRB
				G	R	RJX8FB5HGRB
				G	Y	RJX8FB5HGYB
				U	U	RJX8FB5HUUB
		XLRnet chassis, CAT 5e, B type, Shielded Hood, Horizontal PCB, Bulk packed	Bulk Pack	-	-	RJX8FB5HEB
		XLRnet chassis, CAT 5e, B type, Shielded Hood, LEDs, Horizontal PCB, Bulk packed	Bulk Pack	R	G	RJX8FB5HRGEB
				R	Y	RJX8FB5HRYEB
				R	R	RJX8FB5HRREB
				G	R	RJX8FB5HGREB
				G	Y	RJX8FB5HGYEB
				U	U	RJX8FB5HUUEB

*Note: LED colours are denoted left to right from the panel side front view. Refer page 87
R = Red, G = Green, Y = Yellow, U = Blue

PART NUMBER BREAKDOWN

XLRnet A AND B TYPE

E. G . **RJX8FB5HLRREB**
RJX (Series Prefix), **8** (Contacts), **F**emale **B** type, **H**orizontal, **L**atchless,
Red - **R**ed LEDs, **E**MI / RFI Hood, **Bulk** Packaged.

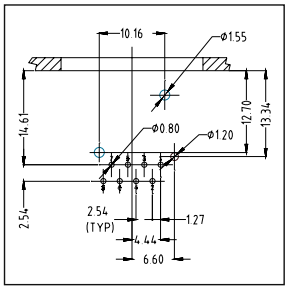


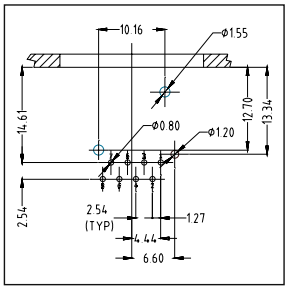
SERIES PREFIX	RJX	=	Series Prefix
CONTACT LAYOUT	8	=	RJ45 type
GENDER	F	=	Receptacle housing
SHELL SERIES	A	=	A Type
	B	=	B Type
TRANSMISSION CLASS	3	=	Class D
	5	=	CAT 5e
TERMINATION	H	=	Horizontal Printed Circuit Board
LOCKING MECHANISM	Blank	=	Latching
	L	=	Latchless
LED COLOUR SEQUENCE*	Blank	=	No LEDs
	RG	=	Red / Green
	RY	=	Red / Yellow
	RR	=	Red / Red
	GR	=	Green / Red
	GY	=	Green / Yellow
	GG	=	Green / Green
	YR	=	Yellow / Red
	YY	=	Yellow / Yellow
	YG	=	Yellow / Green
	UU	=	Blue / Blue
EMI / RFI SHIELDING HOOD	Blank	=	No shield hood
	E	=	EMI / RFI shield hood
PACKAGING	Blank	=	Individual
	B	=	Bulk packed

*Note: LED colours are denoted left to right from the panel side front view. Refer page 87

XLRNET A AND B TYPE SERIES

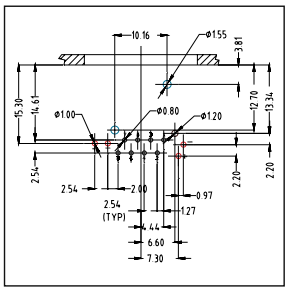
RJX8FA3H
RJX8FA3HB

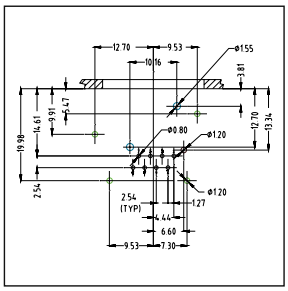




RJX8FB5H
RJX8FB5HB

RJX8FB5HRGB
RJX8FB5HRYB
RJX8FB5HRRB
RJX8FB5HGRB
RJX8FB5HGYB
RJX8FB5HGGB





RJX8FB5HEB
RJX8FB5HEB
RJX8FB5HEB
RJX8FB5HEB
RJX8FB5HEB
RJX8FB5HEB

RJX8FB5HRGEB
RJX8FB5HRYEB
RJX8FB5HRREB
RJX8FB5HGREB
RJX8FB5HGYEB
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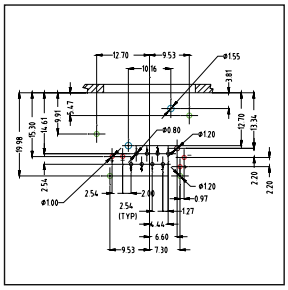
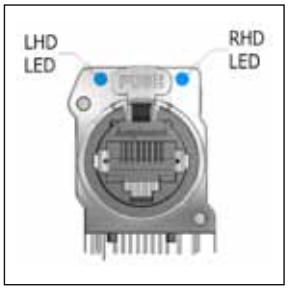
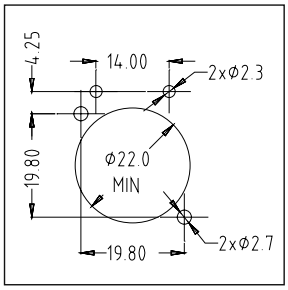
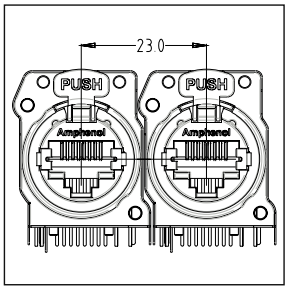




LED Arrangement (Front view)

XLRnet PANEL CUTOUT





XLRnet MOUNTING PITCH

XLRnet PoE+ PSE Pinout Alternatives

CONDUCTOR	Alternative-A (MDI-X)	Alternative-A (MDI)	Alternative-A (All)
1	Negative V_{PSE}	Positive V_{PSE}	
2	Negative V_{PSE}	Positive V_{PSE}	
3	Positive V_{PSE}	Negative V_{PSE}	
4			Positive V_{PSE}
5			Positive V_{PSE}
6	Positive V_{PSE}	Negative V_{PSE}	
7			Negative V_{PSE}
8			Negative V_{PSE}

STANDARD DATA XLRnet CHASSIS RECEPTACLES

		VALUE - Class D	VALUE - CAT 5e
GENERAL CHARACTERISTICS	Number of contacts	8	
	Contact Arrangement	RJ45	
	Termination	Printed Circuit Board (PCB) - through hole	
	Flammability	UL94V-0	
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU	
	Solderability	MIL-STD 202, Method 208	
ELECTRICAL CHARACTERISTICS	Rated current per contact	1.5 A	
	Rated Voltage	125V AC	
	Typical Contact Resistance	20mΩ	
	Insulation Resistance	> 500MΩ	
	Dielectric Strength	1000 VAC, 60 secs	
	Frequency Bandwidth	1 - 100Mhz	1 - 250Mhz
	Transmission Specification / Class	10/100 Base-T	1000 Base-T
	PoE+	802.3at Type 2	
	LED Type	Round, single pole, indicator	
CLIMATIC CHARACTERISTICS	Protection Class	IP40 (with EMI/RFI shield)	
	Operating Temperature	-40°C to +85°C	
MECHANICAL CHARACTERISTICS	Weight** - A & B Housing - Shielded Housing	11g (0.024lb) 17g (0.037lb)	
	Mechanical Operations	1000	
	Insertion and Withdrawal Force	≤ 21N	
	Latch	Spring Steel	
	Panel Thickness	3mm	
	Mounting screw torque max.	1.5Nm	
	Fastener	Self-Tapping screw M2.5	
MATERIALS	Connector Shell / Housing	Thermoplastic, DSM Stanyl UL94V-0, 30% GF	
	Flange (A type)	Thermoplastic, DSM Stanyl UL94V-0, 30% GF	
	Flange (B type)	Diescast Zinc Alloy 3	
	Flange Finish (B type)	Satin Nickel	
	Contact	Phosphor Bronze	
	Contact Finish	0.38μm Au over 1.27μm Ni or 1.27μm Au over 1.27μm Ni	
	Metal Hood Shield EMI/RFI	Brass, nickel plated	
	Latch lock and Spring	Spring steel	

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

Rev 1 - 03/2013

BNC 75 RF CONNECTORS

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

Applications

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

Options

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

Ordering Codes

We have listed the more common ordering codes in each section. Amphenol offer an extensive range of RF connectors for most applications.

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

Simple steps to guide you in using this catalogue

1) Identify the product group listed in Contents on page 1 and go directly to that page number.

2) Each product group cover page then details information and options available.

3) Refer to the product detail pages and identify the product you require pictorially.

4) Read the product description column for the products standard features.

5) Use variations column to determine your choice.

6) Identify part number.

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.

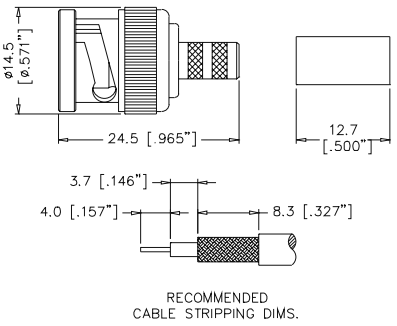
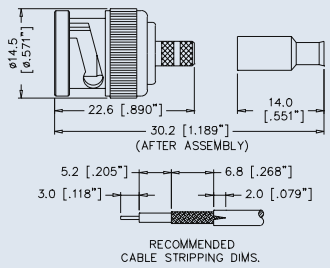
8) Please contact us directly if you have any further problems.

Amphenol

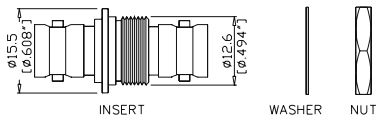
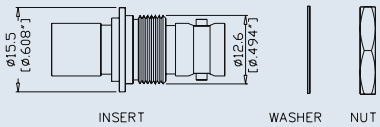
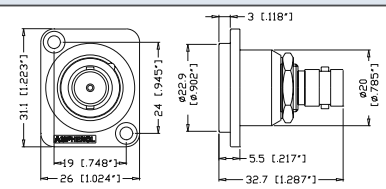
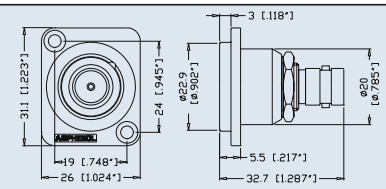
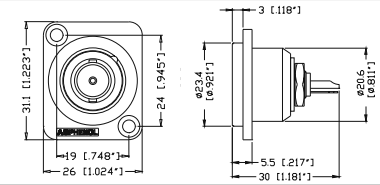
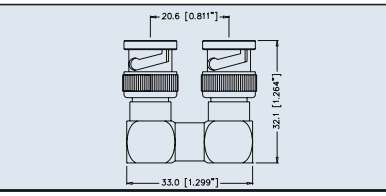
BNC 75Ω RF CONNECTORS

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

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

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	CABLE TYPE RG-/U	INSULATION	CRIMP TOOL	PART NUMBER
	Straight Crimp Plug - Captive Contact- Standard Cable  Assembly Instruction A - page 89	59/ 62/ 140/ 210	Delrin	A	112119
			Teflon	E	112952*
		59/ U-20AWG	Delrin	A	112507
			Teflon	E	112956*
		11/ U-14AWG/ B8213/ B9292/ B7731/ B1859A	Teflon	D	112606
		6/ 143/ 212	Delrin	E	112508
		B1694A/ B9248	Delrin	E	112565
			Teflon	E	112957*
		6 PLENUM/ B1695A	Delrin	E	112519
		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")  Assembly Instruction B - page 89	179/ 187/ B9221	Delrin	B	112133
		180/ 195/ 122/ B8218/ B1865A/ B1855	Delrin	B	112521
			Teflon	F	112955*

Note: *True 75 ohm.

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION & CABLE TYPE RG-/U	INSULATION	CRIMP TOOL	PART NUMBER
		**Bulkhead Adapter -Isolated** Jack to Jack - Straight Bayonet Lock to Bayonet Lock	Teflon	N/A	AC-BNC-JJA-75T*
		**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*
		Bulkhead Adapter -Isolated, 'D' Shell Housing Jack to Jack,Bayonet Lock to Bayonet Lock, Black Finish	Teflon	N/A	AC-BNC-JJ-75B*
		**Bulkhead Adapter -Isolated, 'D' Shell Housing** Jack to Jack, Push on to Bayonet Lock, Nickel Finish	Teflon	N/A	AC-BNC-PJ-75*
		Bulkhead Adapter -Isolated, 'D' Shell Housing Jack to Jack,Push on to Bayonet Lock, Black Finish	Teflon	N/A	AC-BNC-PJ-75B*
		**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
		**U - Link** Centre to Centre - 20.6 mm **Note:** Custom Sizes available please contact factory.	Teflon	N/A	BNC-U-LINK 75*1

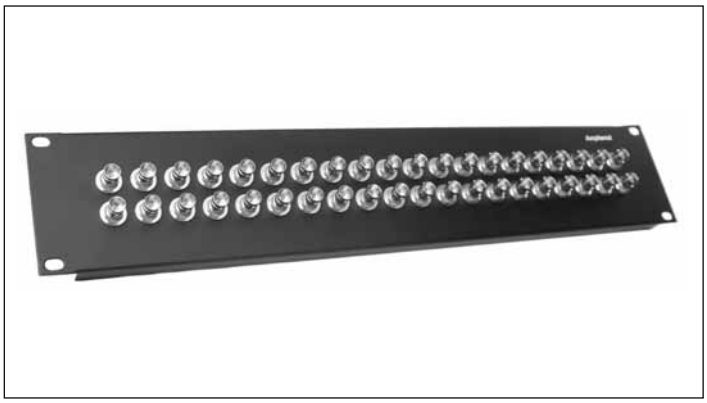
BNC 75 RF ACCESSORIES AND TOOLING

PRODUCT - FIGURE	DESCRIPTION	DIE CAVITIES	CABLE TYPE RG-/U	CONNECTOR GUIDE	PART NUMBER
	Crimp tool with Die Set	.255 / .213 / .068	59 / 62	A	47-10070
		.178 / .128 / .068	179 / 187 / 180 / 195	B	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.

Amphenol

BNC PATCH PANELS

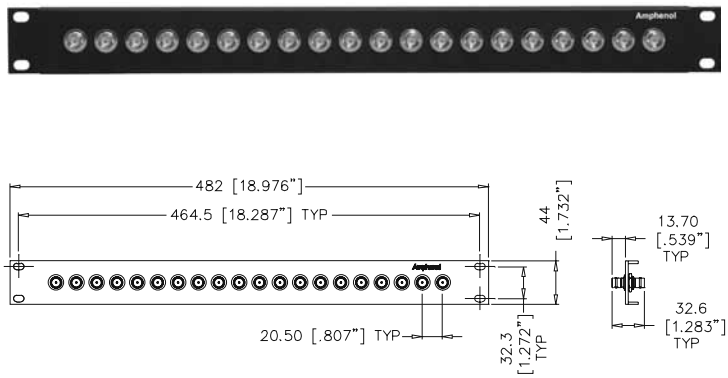
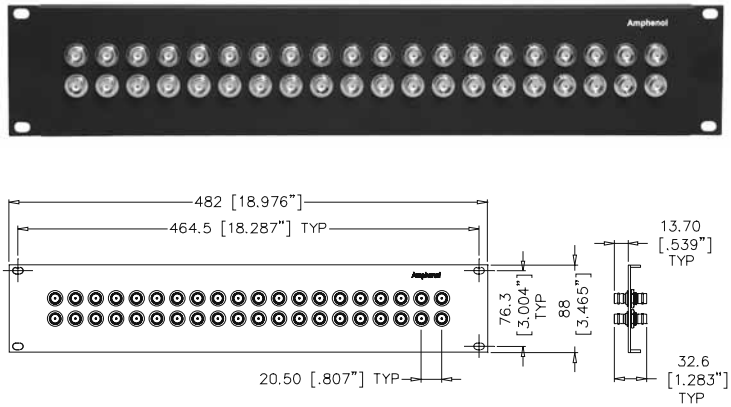


Features:

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

Options:

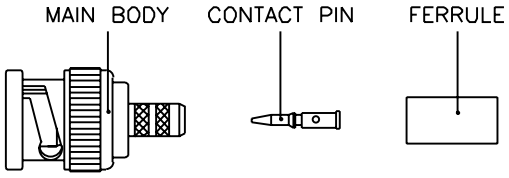
- 1RU, 20 BNC connectors or 2RU, 40 BNC connectors
- Aluminium in Clear or Black anodised
- Steel in Black powder coat
- Customised versions available on request

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
			Aluminium / Clear	AC-BNC-JJA-75	AC-BNC20AJ75
			Aluminium / Clear	AC-BNC-PJA-75	AC-BNC20AP75
			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 ID labels	Steel / Black	Empty Panel	AC-BNC40M
			Steel / Black	AC-BNC-JJA-75	AC-BNC40MJ75
			Steel / Black	AC-BNC-PJA-75	AC-BNC40MP75
			Aluminium / Clear	Empty Panel	AC-BNC40A
			Aluminium / Clear	AC-BNC-JJA-75	AC-BNC40AJ75
			Aluminium / Clear	AC-BNC-PJA-75	AC-BNC40AP75
			Aluminium / Black	Empty Panel	AC-BNC40B
			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

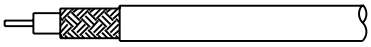
BNC 75 RF ASSEMBLY INSTRUCTIONS

ASSEMBLY A

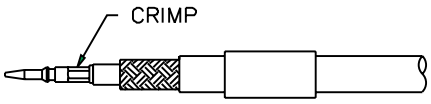
STEP 1



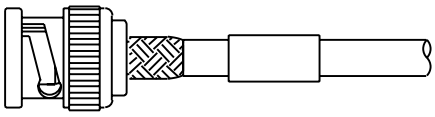
STEP 2



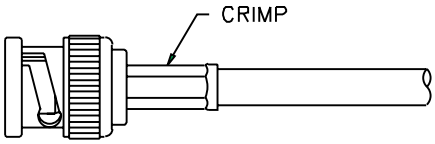
STEP 3



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.

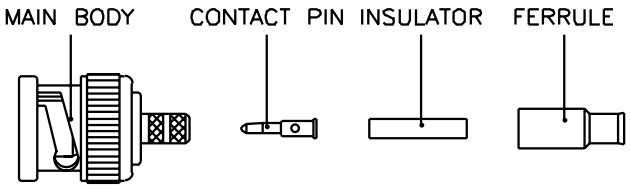
STEP 3. Insert inner conductor into the CONTACT PIN, crimp it with the crimp tool as shown. Then slide the FERRULE onto cable.

STEP 4. Insert the MAIN BODY into braid and dielectric.

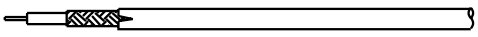
STEP 5. Slide the FERRULE over braid, crimp it with the crimp tool as shown.

ASSEMBLY B

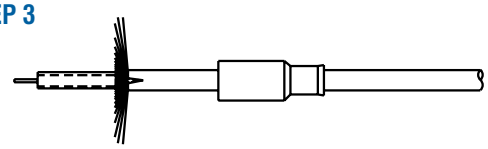
STEP 1



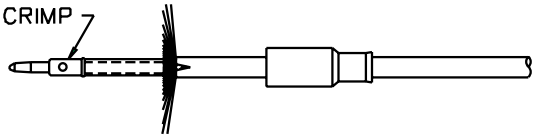
STEP 2



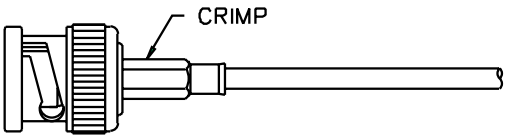
STEP 3



STEP 4



STEP 5



STEP 1. All parts of the connector are shown. A crimp tool is necessary to complete the connection.

STEP 2. Strip the inner conductor, dielectric, and jacket as per "RECOMMENDED CABLE STRIPPING DIM'S" in catalogue.

STEP 3. Slide the FERRULE on to cable, then fold back braid wire and slide the INSULATOR on to dielectric as shown.

STEP 4. Insert inner conductor into the CONTACT PIN, crimp it with crimp tool as shown.

STEP 5. Push cable and parts into the MAIN BODY until it stops. Then slide the FERRULE over braid wire and against the MAIN BODY, crimp it with the crimp tool as shown.

STANDARD DATA BNC 75 RF CONNECTORS

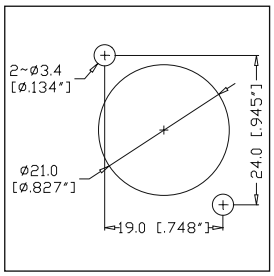
		VALUE	
GENERAL CHARACTERISTICS	Mating	Bayonet Lock	
	Cable Attachment	Crimp - Crimp	
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU	
ELECTRICAL CHARACTERISTICS	Impedance	75Ω	
	Frequency Range - Standard - True 75 Ohm	0 - 1 GHz 0 - 4 GHz	
	Voltage Rating	500V RMS	
	Dielectric withstanding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

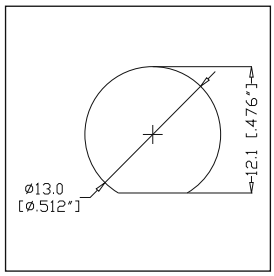
Rev 4 - 03/2013

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

PANEL CUTOUTS - FRONT VIEW

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





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

1/4" PHONE CONNECTORS

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

Applications

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

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

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

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

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

Jaws Cable Clamp Options for T-Series*

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

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

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

Musician Range Cable Clamp Options

M-Series, Cable 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.

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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[1]
PRECISION MACHINED CONTACTS		X	X	X	X	X	X	X	X
CENTER CONTACT	1 pc. Center Contact	X	X	X	X	X			X*
	2 pc Press Fit Tip/Center Contact						X	X	X*
BARREL:	Machined Tube	X	X	X	X	X			
	Precision Extruded Tube						X	X	X
JAWS CABLE CLAMP		X	X		X	X			
MIN. CABLE OD	Black Jaw: 3mm/0.118"	X	X		X	X			
	Purple Jaw: 6mm/0.236"	X			X				
	Purple Jaw: 5.5mm/0.216"		X			X			
MAX. CABLE OD	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			
STANDARD CABLE CLAMP				X			X	X	X
MIN. CABLE OD	7.5mm/0.295"			X					
MAX. CABLE OD	6mm/0.236"						X		
	8mm/0.315"							X	
	8.8mm/0.345"								X
	10.5mm/0.413"			X					
BACKSHELL FINISH	Satin Nickel	X	X	X	X	X	X	X	
	Black	X	X	X	X	X	X	X	
	Bright Nickel								X
	Bright Gold								X
CONTACT MATERIAL/ FINISH OPTIONS	Brass/Nickel (Ni)	X	X	X	X	X	X	X	X
	Brass/Gold over 2μm (Ni)	X	X	X	X	X	X	X	X

[1]Custom Series - Minimum order quantities apply. Contact us for further details.

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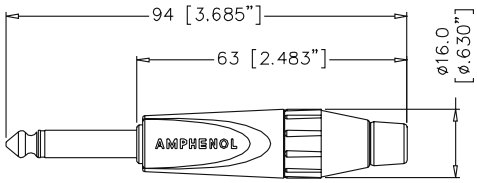
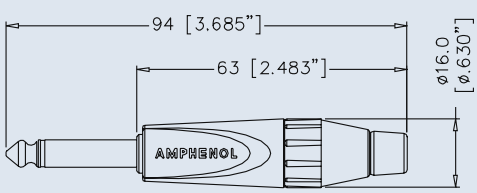
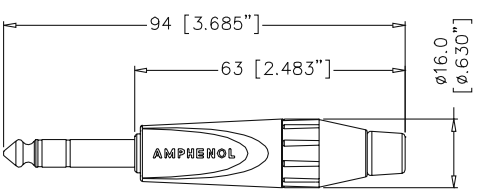
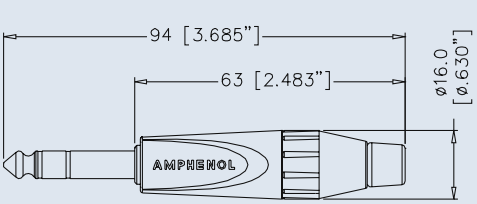
Features:
- Mono or Stereo (TRS).
- Stylised shell design with Ergonomic grip.
- Straight or Right Angle.
- Robust diecast shell in Satin nickel or Black finish.
- Nickel or Gold contact plating.
- Keyed shell.
- Optional heavy duty metal backshell / boot.
- Great solderability.
- Increased solder area 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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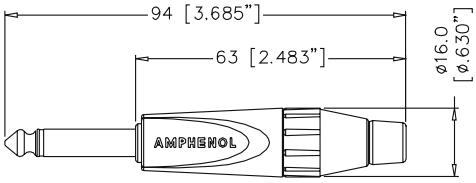
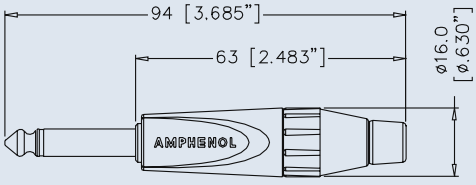
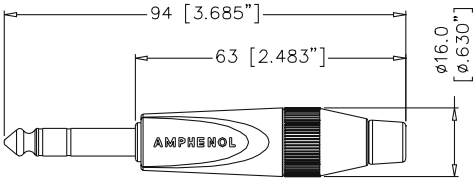
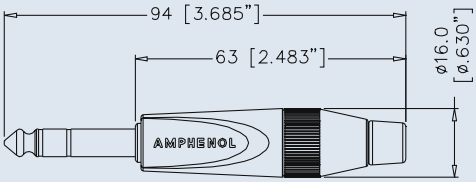
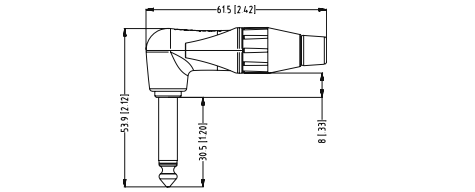
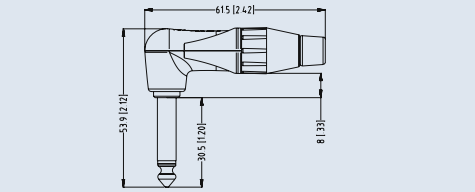
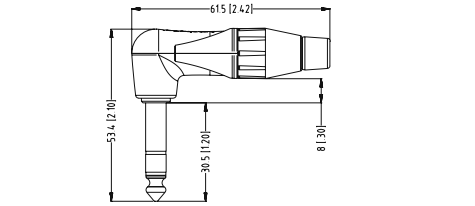
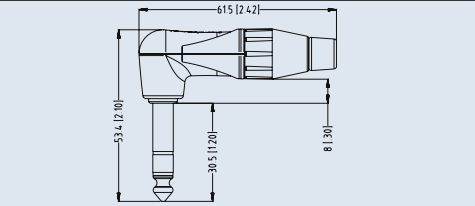
PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		1/4" (6.35mmø) Mono Phone plug, Jaws cable clamp, Metal backshell, Satin finish.	Standard	TM2PN
			Gold Plated Contacts	TM2PN-AU
			Large Cable Clamp	TM2PNJ
			Bulk Pack	TM2PN BULK
		1/4" (6.35mmø) Mono Phone plug, Jaws cable clamp, Metal backshell, Black finish.	Standard	TM2PBM
			Gold Plated Contacts	TM2PBM-AU
			Large Cable Clamp	TM2PBMJ
			Bulk Pack	TM2PBM BULK
		1/4" (6.35mmø) Stereo Phone plug, Jaws cable clamp, Metal backshell, Satin finish.	Standard	TS3PN
			Gold Plated Contacts	TS3PN-AU
			Large Cable Clamp	TS3PNJ
			Bulk Pack	TS3PN BULK
		1/4" (6.35mmø) Stereo Phone plug, Jaws cable clamp, Metal backshell, Black finish.	Standard	TS3PBM
			Gold Plated Contacts	TS3PBM-AU
			Large Cable Clamp	TS3PBMJ
			Bulk Pack	TS3PBM BULK
		1/4" (6.35mmø) Mono Phone plug, Right angle, Jaws cable clamp*, Thermoplastic back-shell, Satin finish.	Standard	TM2RJ
			Gold Plated Contacts	TM2RJ-AU
			Small Cable Clamp	TM2R
			Bulk Pack	TM2RJ BULK
		1/4" (6.35mmø) Mono Phone plug, Right angle, Jaws cable clamp*, Thermoplastic back-shell, Black finish.	Standard	TM2RBJ
			Gold Plated Contacts	TM2RBJ-AU
			Small Cable Clamp	TM2RB
			Bulk Pack	TM2RBJ BULK
		1/4" (6.35mmø) Stereo Phone plug, Right angle, Jaws cable clamp*, Thermoplastic back-shell, Satin finish.	Standard	TS3RJ
			Gold Plated Contacts	TS3RJ-AU
			Small Cable Clamp	TS3R
			Bulk Pack	TS3RJ BULK
		1/4" (6.35mmø) Stereo Phone plug, Right angle, Jaws cable clamp*, Thermoplastic back-shell, Black finish.	Standard	TS3RBJ
			Gold Plated Contacts	TS3RBJ-AU
			Small Cable Clamp	TS3RB
			Bulk Pack	TS3RBJ BULK

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

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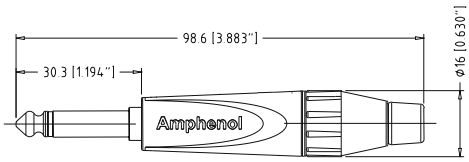
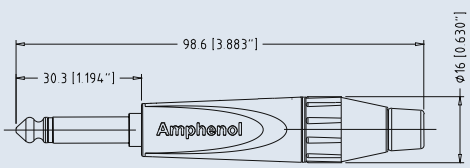
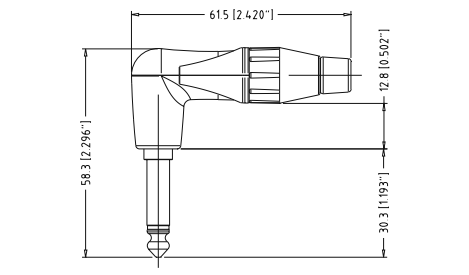
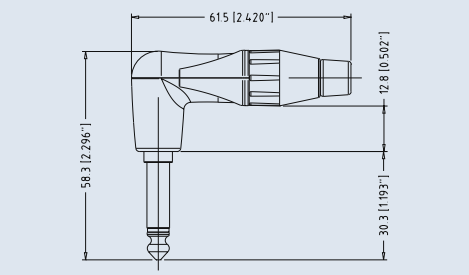
SwitchPlug

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

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

Part Number Breakdown: page 102
Specifications: page 103

US Patent No.8,162,697

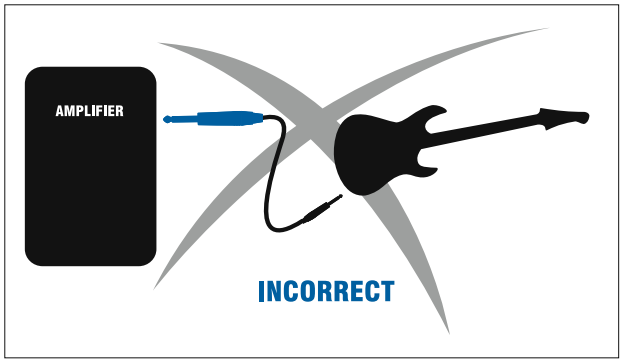
PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		1/4" (6.35mmø) Switch Phone plug, Jaws cable clamp, Thermoplastic back-shell, Satin finish.	Standard	TM1P
			Gold Plated Contacts	TM1P-AU
			Large Cable Clamp	TM1PJ
			Bulk Pack	TM1P BULK
		1/4" (6.35mmø) Switch Phone plug, Jaws cable clamp,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

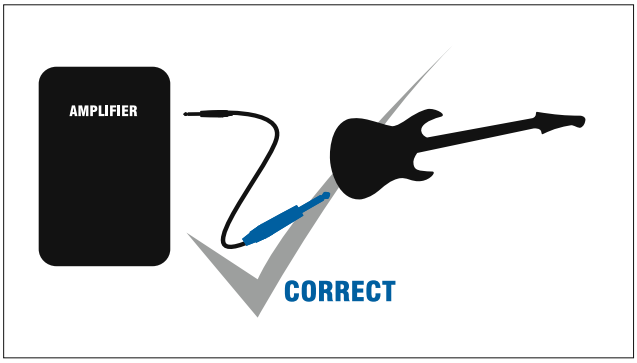
*NOTE: Refer to page 98 for Jaws cable clamp specifications applicable to right angle connectors.

SwitchPlug - User Instruction

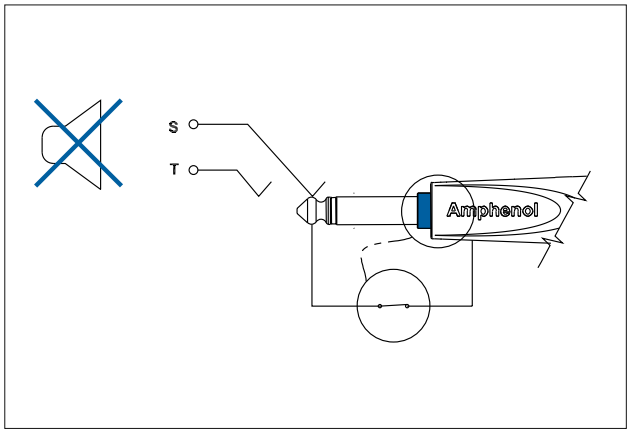
CAUTION!

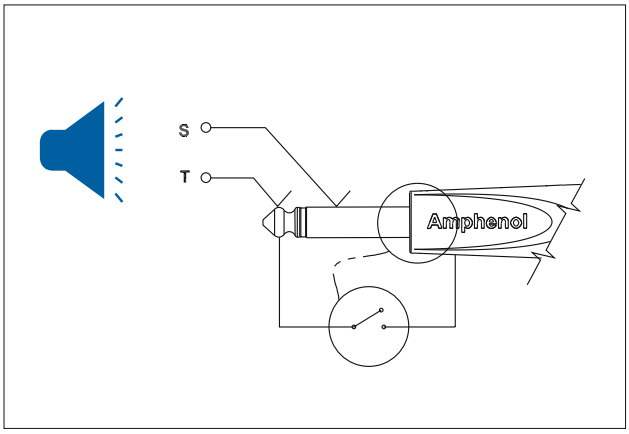
Use with instrument (guitar) cables only.
DO NOT connect to amplifier output.
Equipment damage may result from incorrect use.





SwitchPlug - Technology*



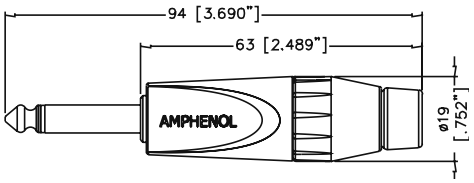
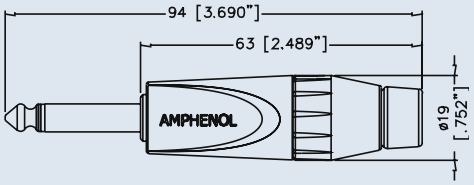
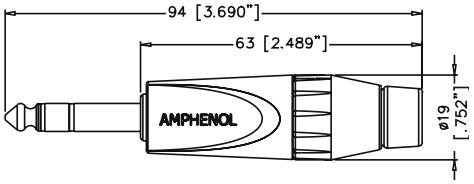
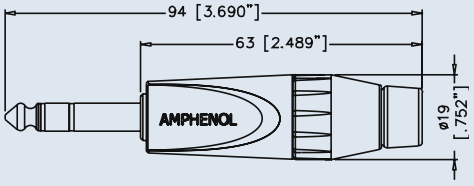


*US Patent No. 8,162,697

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 103

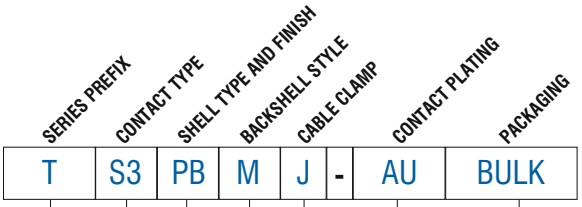
PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		1/4" (6.35mmø) JUMBO Mono Phone plug, Thermoplastic back-shell, Satin finish.	Standard	JM2P
			Gold Plated Contacts	JM2P-AU
			Bulk Pack	JM2P BULK
		1/4" (6.35mmø) JUMBO Mono Phone plug, Thermoplastic back-shell, Black finish.	Standard	JM2PB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

NOTE: Contact factory for availability of metal backshells.

PART NUMBER BREAKDOWN

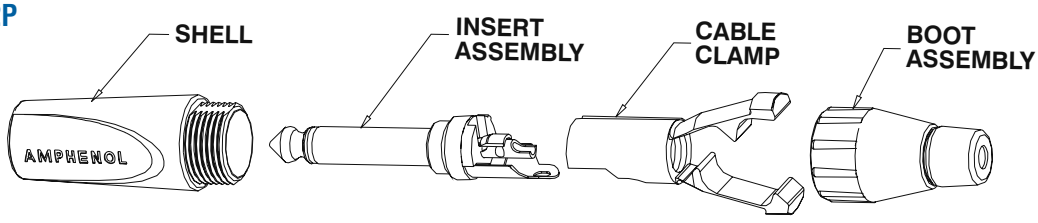
T-SERIES (PRO RANGE)

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	M1	=	Switch Plug
	M2	=	2 Pole (mono)
	S3	=	3 Pole, tip/ring/sleeve (stereo)
SHELL TYPE AND FINISH	P	=	Plug Satin Nickel
	PB	=	Plug Matt Black
	R	=	Right Angle Plug Satin Nickel
	RB	=	Right Angle Plug Matt Black
BACKSHELL TYPE	Blank	=	Plastic Nut
	M	=	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

ISO VIEW OF TM2P



1/4" PHONE PLUG TECHNICAL DATA

		VALUE		
		Straight	Right Angle	Jumbo
GENERAL CHARACTERISTICS	Number of Contacts	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 EU RoHS 2 Directive 2011/65/EU		
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	-25°C to +75°C (-13°F to + 167°F)		
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	3mm to 6mm (0.118" to 0.236")	3mm to 5.5mm (0.118" to 0.216")	NA
	Cable O.D. - Large Jaw	6mm to 7mm (0.236" to 0.275")	5.5mm to 6.5mm (0.216" to 0.255")	NA
	Cable O.D. - Jumbo	NA	NA	7.5mm to 10.5mm (0.295" to 0.413")
	Mechanical Operations	1000		
MATERIALS	Connector Shell Material 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 $CuZn^{39}Pb^3$		
	Cable Clamp	UL94 V-0 PBT Modified PPO Resin - Black		
	Cable Bushing	Santoprene		
	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.

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MUSICIAN SERIES II

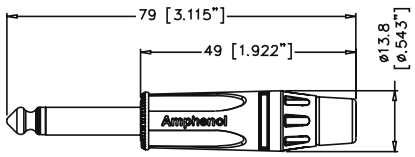
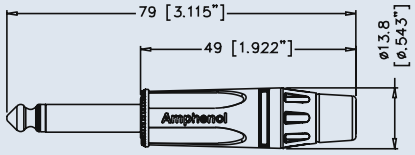
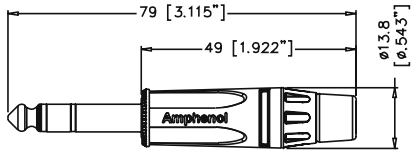
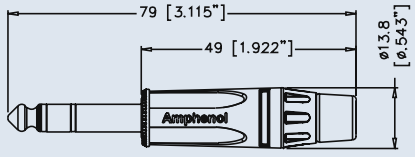
Features:
- Mono or Stereo (TRS).
- AX Series inspired shell design.
- Large cable O.D. Entry to 8mm (0.315")
- Robust diecast shell in Satin nickel or Black finish.
- Nickel or Gold contact plating.
- Flexible grommet cable protection.
- Improved solderability.
- Precision machined contacts.
- Standard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

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

Specifications: Page 112

Clamp Info:

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

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	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

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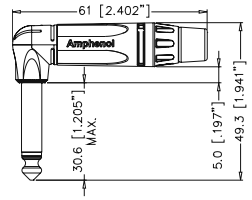
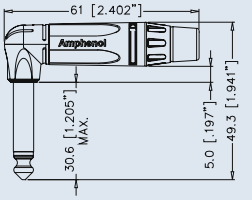
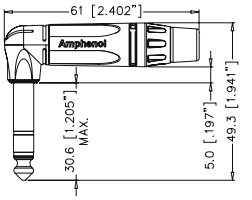
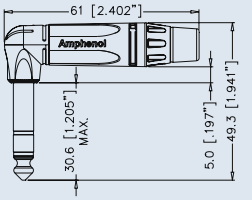
M SERIES II (MUSICIAN RANGE)

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	TYPE	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

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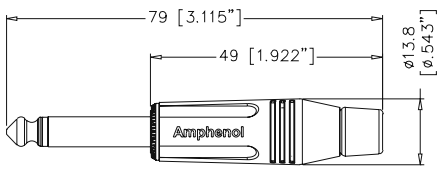
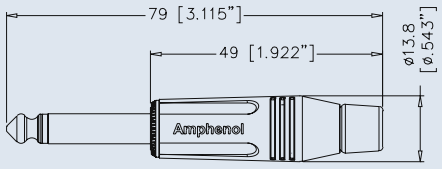
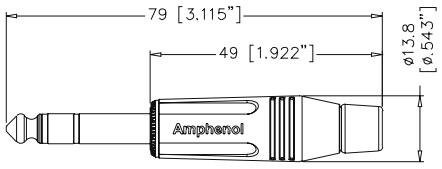
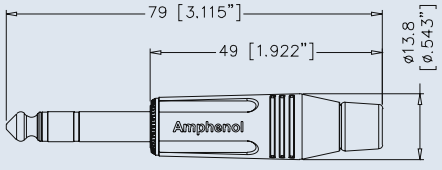
Features:
- Mono or Stereo (TRS).
- Stylish shell design.
- Robust diecast shell in Satin nickel or Black finish.
- Nickel or Gold contact plating.
- Flexible grommet cable protection.
- Improved solderability.
- Precision machined contacts.
- Standard or Bulk packaging.
- Cable OD Entry to 6.5mm (0.256")

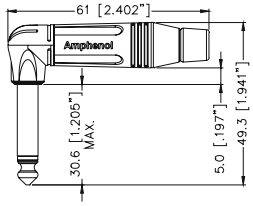
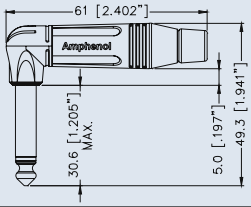
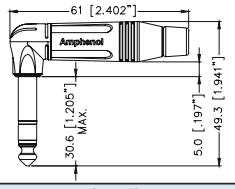
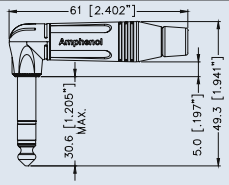
Options: Black Shell, Gold contacts. Coloured grommets (ordered separately)

Specifications: page 117

Clamp Info:

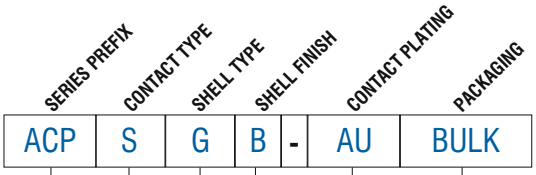
Cable O.D 3mm to 6.5mm (0.118" to 0.256")

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

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

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

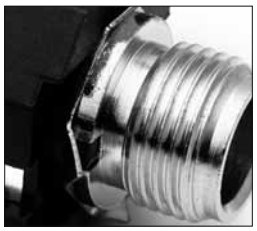
Applications

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

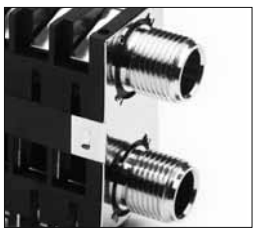
Features / Options – OEM RANGE Phone Jack

- 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.

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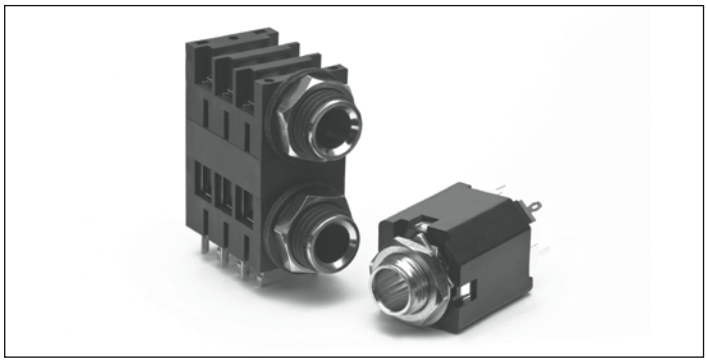
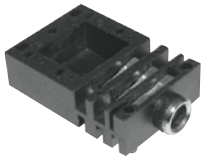
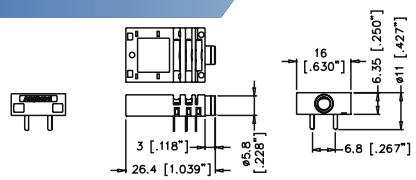
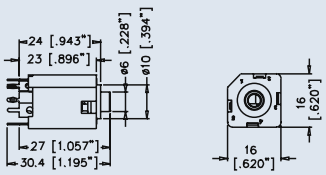
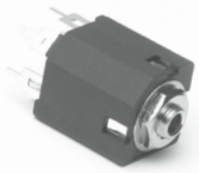
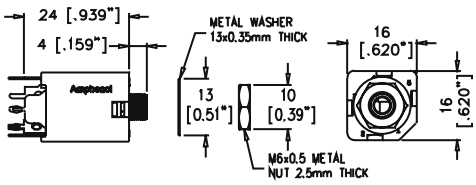
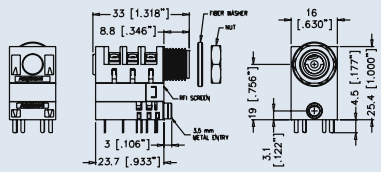
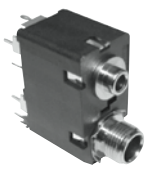
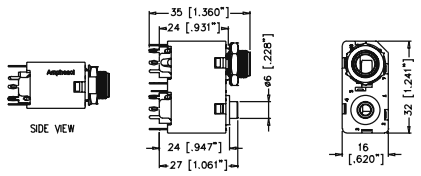
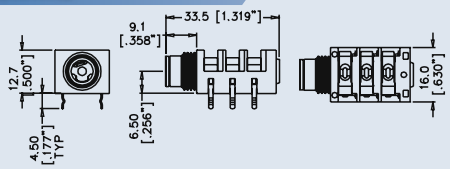
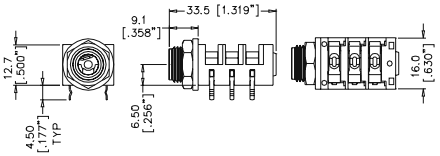
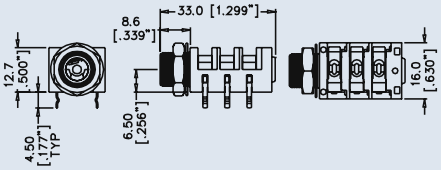
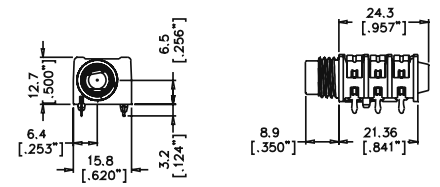
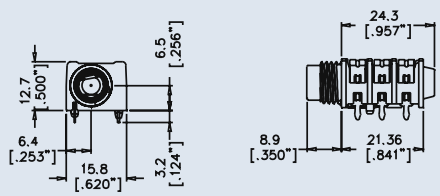
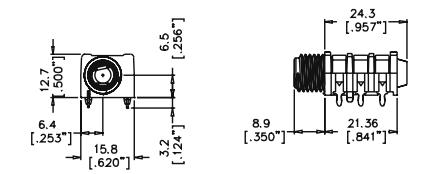
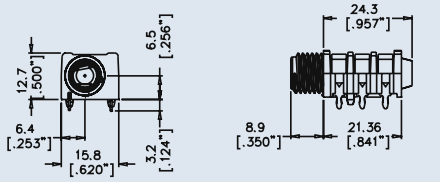
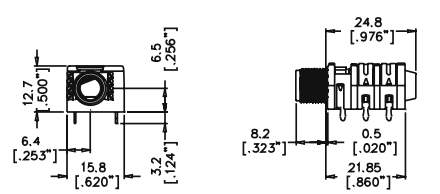
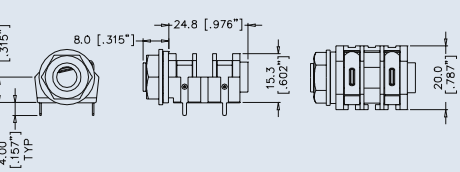
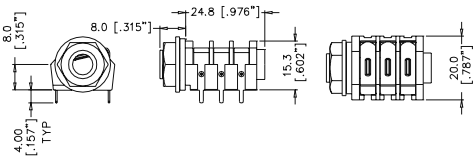
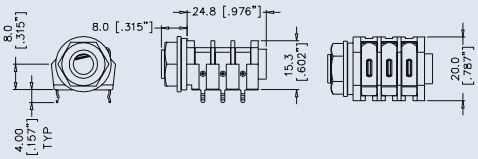
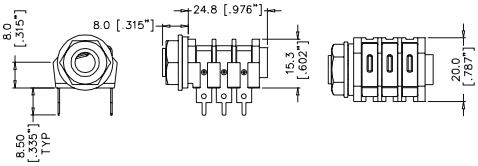
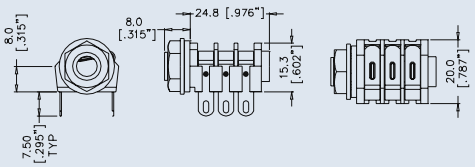
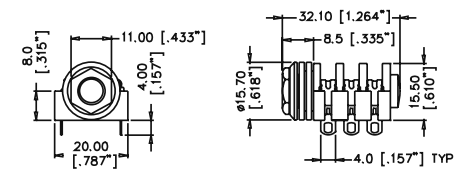
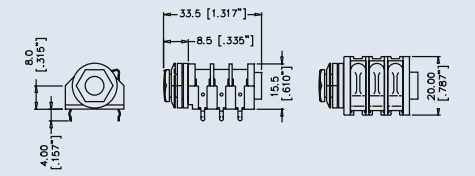
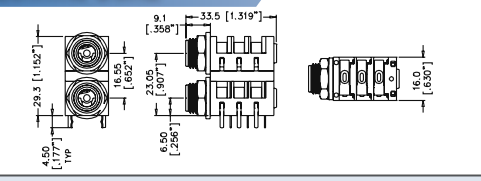
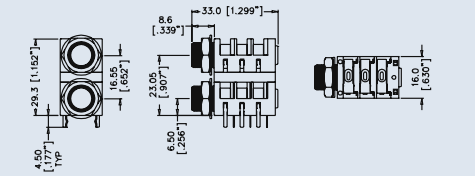


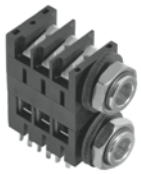
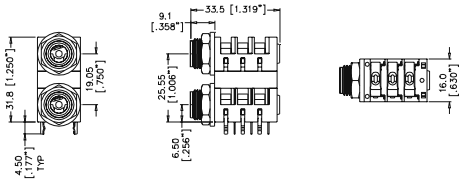
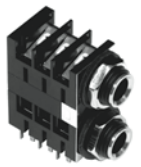
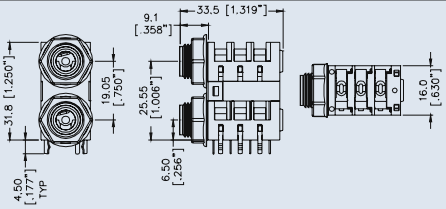
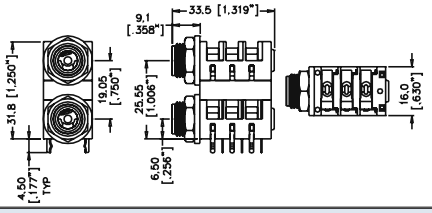
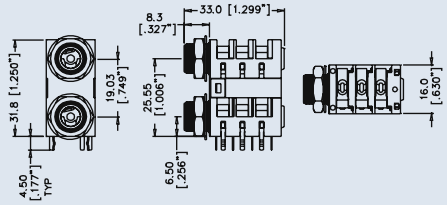
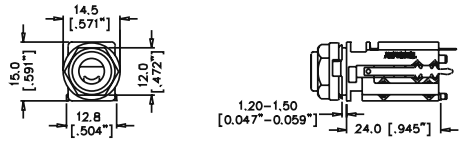
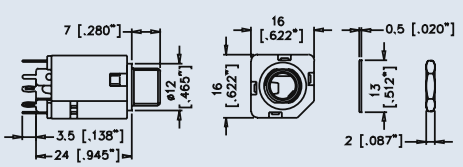
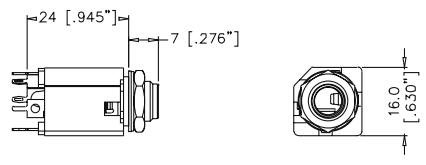
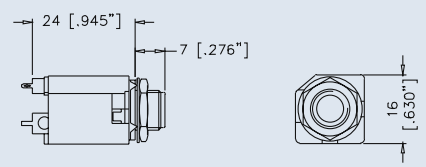
Features:
- 3.5mm and 6.35mm (1/4") options
- Mono or Stereo (TRS)
- Single or Dual mounting
- Vertical or Horizontal PCB mount
- Mono and Stereo with switching contacts
- Solder or Combo contacts
- Various mounting option

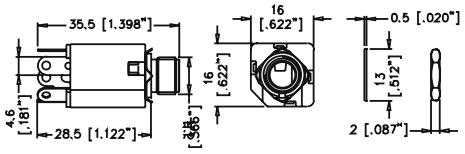
Schematic Chart: page 117
Panel Cutouts: page 114
PCB Footprints: page 116
Specifications: page 117

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
3.5MM PHONE JACKS				
		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 110	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 110	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 110	ACJM-MVD985-2
				ACJM-MVD985-2S
				ACJS-MVD985-3
				ACJS-MVD985-3S
				ACJS-MVD985-5
1/4" PHONE JACKS HORIZONTAL				
		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 110	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 110	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 PHOP - Denotes Plastic Nut MHOP - Denotes Metal Nut	ACJM-PHOP-1
				ACJM-MHOP-1
				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

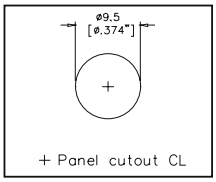
PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		1/4" (6.35mmø) Jack, Horizontal PCB mount, Plastic housing with metal insert	Stereo - Plastic Nut	ACJS - PH
			Stereo - Metal Nut	ACJS - MH
		1/4" (6.35mmø) Jack, Horizontal Snap-fit PCB mount, Plastic housing with 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 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
1/4" PHONE JACKS HORIZONTAL DUAL				
		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*
		1/4"(6.35mmø) Dual Phone Jack (Compact Piggyback), Horizontal Snap-fit PCB, Plastic housing, Metal thread, nut and entry bore	Mono	ACJM-MHDCM
			Stereo	ACJS-MHDCM

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	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, nut, 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*
1/4" PHONE JACKS VERTICAL				
		1/4" (6.35mmØ) Jack, Vertical PCB mount, Plastic housing, nut and entry bore	Refer to Schematic Chart on Page 110	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 110	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 110	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 110	ACJM-MV-2
				ACJM-MV-2S
				ACJS-MV-3
				ACJS-MV-3S
				ACJS-MV-5

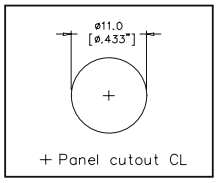
PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		1/4" (6.35mmø) Jack, Solder Lug, Metal nut and insert	Refer to Schematic Chart on Page 110	ACJM-MVS-2 ACJM-MVS-2S ACJS-MVS-3 ACJS-MVS-3S ACJS-MVS-5

PANEL CUTOUTS

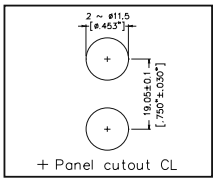
-FRONT VIEW



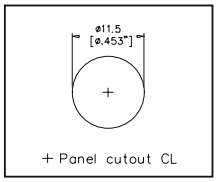
ACJM-MV
ACJS-MV
ACJM-MN-2
ACJS-MN-3
ACJM-MN-2S
ACJS-MN-3S
ACJS-MN-5
ACJM-MIV
ACJS-MIV
ACJM-MVS
ACJS-MVS



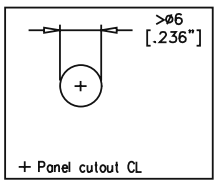
ACJM/S-PH
ACJM/S-MH
ACJM/S-PC
ACJM/S-MC
ACJM/S-PHR
ACJM/S-MHR
ACJM/S-PHS
ACJM/S-MHS



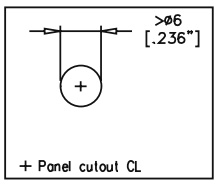
ACJM-MHD
ACJS-MHD
ACJM-MHDE
ACJS-MHDE



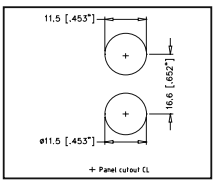
ACJM-MHDR
ACJS-MHDR
ACJS-HHDR



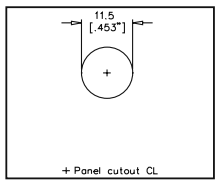
ACJM-NH35
ACJS-NH35



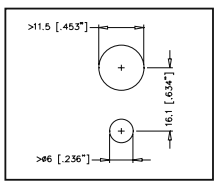
ACJM-NV35-2
ACJM-NV35-2S
ACJS-NV-35-3
ACJS-NV-35-3S
ACJS-NV-35-5
ACJM-MV35-2
ACJM-MV35-2S
ACJS-MV-35-3
ACJS-MV-35-3S
ACJS-MV-35-5



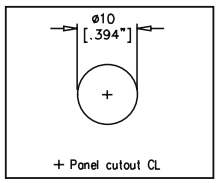
ACJS-MHDC
ACJM-MHDC



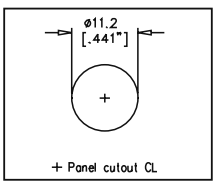
ACJS-IH
ACJM-IH
ACJS-IHS
ACJM-IHS



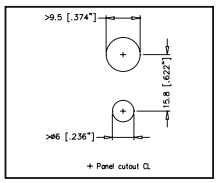
ACJS-MHD985
ACJM-MHD985



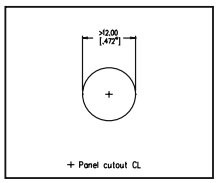
ACJS-MHOM
ACJM-MHOM



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

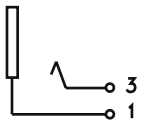
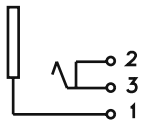
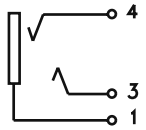
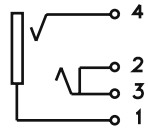
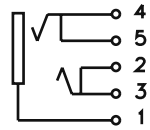


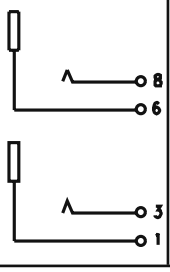
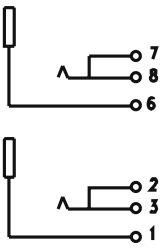
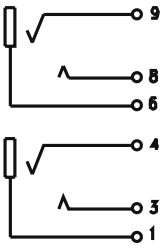
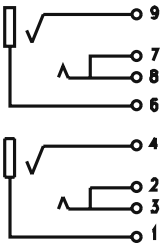
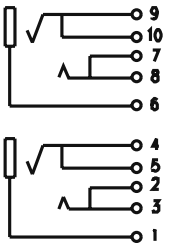
ACJS-MVD985
ACJM-MVD985

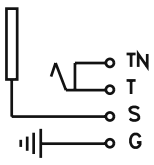
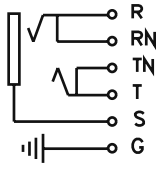
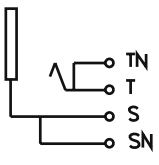
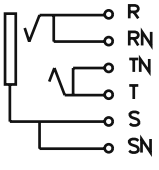


ACJM-PVB-2
ACJM-PVB-2S
ACJS-PVB-3
ACJS-PVB-3S
ACJS-PVB-5

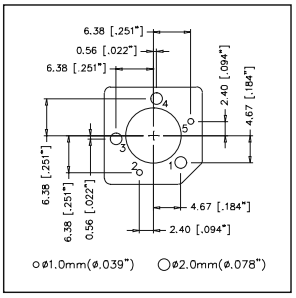
SCHEMATIC CHART

PART NO.	ACJM-MV35-2 ACJM-MN-2 ACJM-NV35-2 ACJM-PVB-2 ACJM-MV-2 ACJM-MVS-2 ACJM-MIV-2	ACJM-MV35-2S ACJM-MN-2S ACJM-NV35-2S ACJM-PVB-2S ACJM-MV-2S ACJM-MVS-2S ACJM-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					

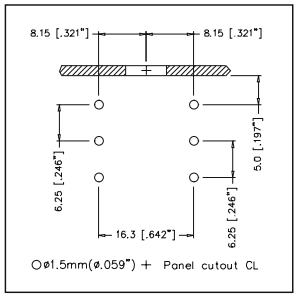
PART NO.	ACJM-MVD985-2	ACJM-MVD985-2S	ACJS-MVD985-3	ACJS-MVD985-3S	ACJS-MVD985-5
SCHEMATIC					

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

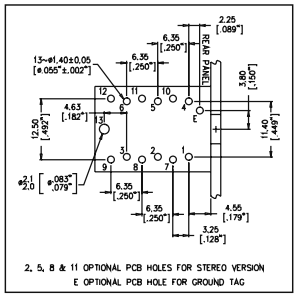
PCB FOOTPRINT
- CONNECTOR SIDE OF PCB



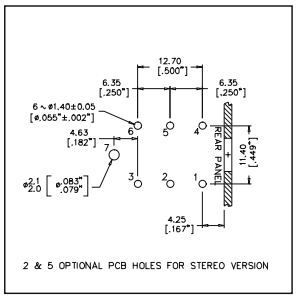
ACJM-MV
ACJS-MV
ACJM-MN-2
ACJS-MN-3
ACJM-MN-2S
ACJS-MN-3S
ACJS-MN-5
ACJM-NV35-XX
ACJM-MV35-XX
ACJS-NV35-XX
ACJS-MV35-XX
ACJM-MIV-2
ACJM-MIV-2S
ACJS-MIV-3
ACJS-MIV-3S
ACJS-MIV-5



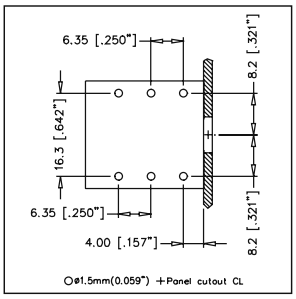
ACJM-PH
ACJM-MH
ACJS-PH
ACJS-MH
ACJM-PC
ACJM-MC
ACJS-PC
ACJS-MC



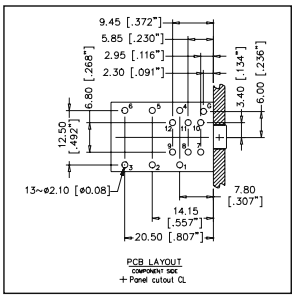
ACJM-MHD
ACJS-MHD
ACJM-MHDE
ACJS-MHDE
ACJM-MHDEM
ACJS-MHDEM
ACJM-MHDC
ACJS-MHDC
ACJM-MHDCM
ACJS-MHDCM
ACJM-MHDM
ACJS-MHDM



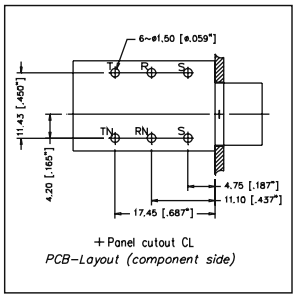
ACJM-MHDR
ACJS-MHDR
ACJM-PHR
ACJM-MHR
ACJS-PHR
ACJS-MHR
ACJM-HHDR
ACJS-HHDR
ACJM-MHDRM
ACJS-MHDRM



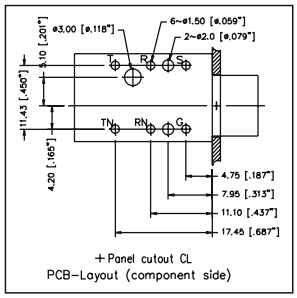
ACJS-IH
ACJM-IH



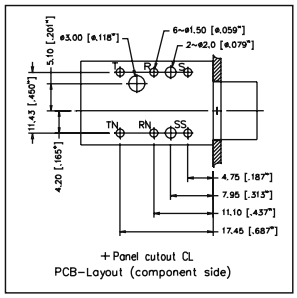
ACJS-MHD985
ACJM-MHD985



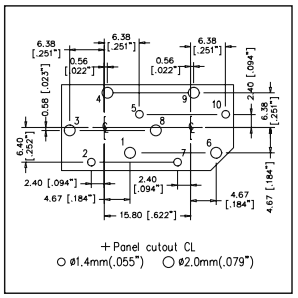
ACJS-MHOM
ACJM-MHOM



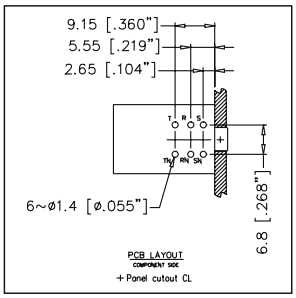
ACJS-MHOP-1
ACJS-PHOP-1
ACJS-HHOP-1
ACJM-MHOP-1
ACJM-PHOP-1
ACJM-HHOP-1



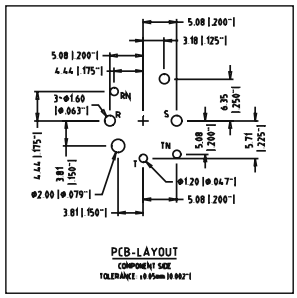
ACJS-MHOP
ACJS-PHOP
ACJM-MHOP
ACJM-PHOP
ACJM-HHOP
ACJS-HHOP



ACJS-MVD985
ACJM-MVD985



ACJS-NH35
ACJM-NH35



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

PLUG AND JACKS TECHNICAL DATA

		VALUE
GENERAL CHARACTERISTICS	Nunber of Contacts	2 Pole (Mono) 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 - 1mm^2
	Flammability rating of insulating plastics	UL94V-0
	Solderability, complies with	IEC 68-2-20
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU
ELECTRICAL 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	-25°C to +75°C (-13°F to + 167°F)
MECHANICAL CHARACTERISTICS	Insertion and Withdrawal Force	≥10N - ≤30N
	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) Contacts / Plating (Jacks)	Brass / Ni over Cu (Copper) Brass / Sn (Tin) over Cu (Copper)

Rev 3 - 03-2013

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

PLUGS AND SOCKETS

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

Applications

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

Features / Options – RCA Plugs and Jacks

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

Features / Options – Miniature XLR

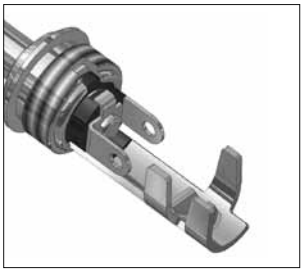
- 3,4,5, or 6 contacts
- Solder cup
- Printed Circuit Board
- Vertical or Horizontal mounting
- Positive locking latch
- Flexible cable clamp
- Metal cable clamp
- Locking rings
- Chassis front mount
- Chassis middle or rear mount (on request)
- Optional black finish (on request)

Features / Options – 3.5mm Plugs Phone Jack

- Mono / Stereo TRS
- Solder contacts
- Suits cable O.D 2.5mm to 5mm
- Stylised shell design
- Flexible cable grommet
- Metal cable clamp
- Nickel or Gold contact plating
- Satin Nickel or Black finish

Cable Clamp Options

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



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

Ordering Codes

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

Simple steps to guide you in using this catalogue

1) Identify the product group listed in Contents on page 1 and go directly to that page number.

2) Each product group cover page then details information and options available.

3) Refer to the product detail pages and identify the product you require pictorially.

4) Read the product description column for the products standard features.

5) Use variations column to determine your choice.

6) Identify part number.

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.

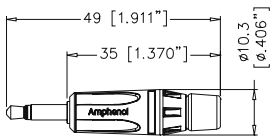
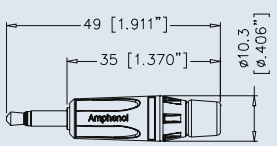
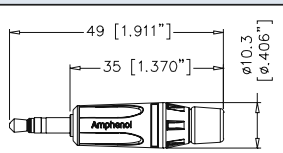
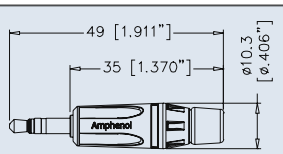
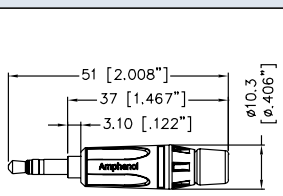
8) Please contact us directly if you have any further problems.

Amphenol

3.5mm K-SERIES

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.

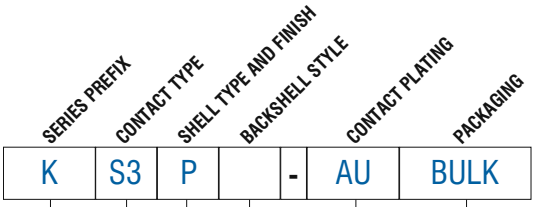
PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		3.5mm, Mono Phone plug, Diecast Shell, Satin finish, Flexible grommet.	Standard	KM2P
			Gold Plated Contacts	KM2P-AU
			Bulk Pack	KM2P BULK
		3.5mm, Mono Phone plug, Diecast Shell, Black finish, Flexible grommet.	Standard	KM2PB
			Gold Plated Contacts	KM2PB-AU
			Bulk Pack	KM2PB BULK
		3.5mm, Stereo Phone plug, Diecast Shell, Satin finish, Flexible grommet.	Standard	KS3P
			Gold Plated Contacts	KS3P-AU
			Bulk Pack	KS3P BULK
		3.5mm, Stereo Phone plug, Diecast Shell, Black finish, Flexible grommet.	Standard	KS3PB
			Gold Plated Contacts	KS3PB-AU
			Bulk Pack	KS3PB BULK
		3.5mm, Stereo Phone plug with extended shaft for mobile phones fitted with covers. Diecast Shell, Black Chrome finish, Flexible grommet	Standard	KS3PC
			Gold Plated Contacts	KS3PC-AU

Amphenol

PART NUMBER BREAKDOWN

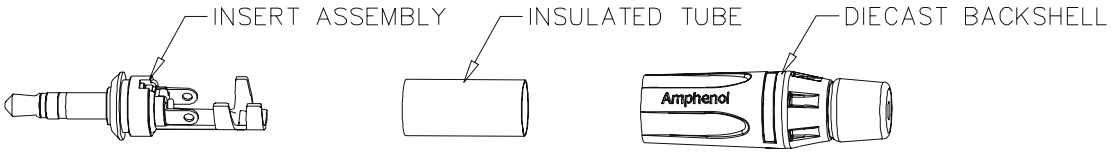
K-SERIES

E. G . **KS3P-AU BULK**
K (Series Prefix), **S3**(Stereo), **P**lug,
- **AU** (Gold Plated Contacts), **Bulk** Packaged.



SERIES PREFIX	K	=	Series Prefix
CONTACT TYPE	M2	=	2 Pole (mono)
	S3	=	3 pole TRS (Stereo)
SHELL TYPE AND FINISH	P	=	Plug Satin Nickel
	PB	=	Plug Matt Black
	PC	=	Plug Black Chrome
BACKSHELL TYPE AND CABLE CLAMP	Blank	=	K Series to suit Cable O.D 2.5mm to 5mm (0.098" to 0.196")
CONTACT PLATING	Blank	=	Nickel Plated Contacts (Standard)
	AU	=	Gold Plated Contacts
PACKAGING	Blank	=	Individual Bags
	BULK	=	Bulk Packed

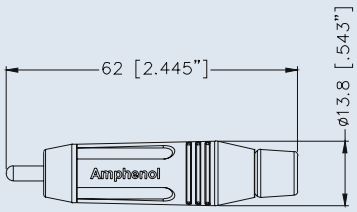
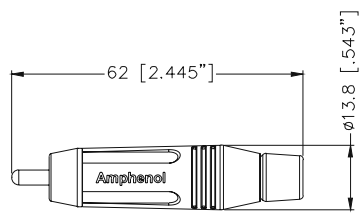
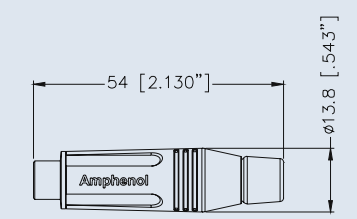
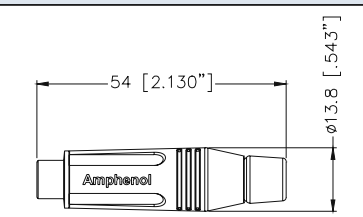
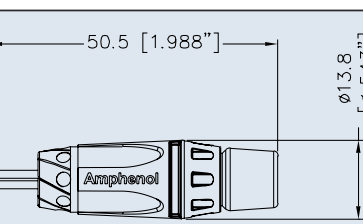
ISO VIEW OF KS3P



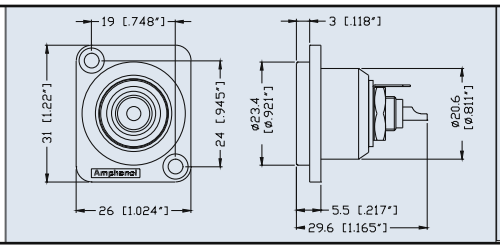
Amphenol

Features:
- Stylish design
- Flexible grommet cable protection
- Robust diecast shell
- Gold plated contacts
- Colour coded
- Good solderability
- Quick and easy assembly
- Panel mount utilises standard 'D' type housing

Part Number Breakdown: page 122

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	COLOUR	PART NUMBER
		RCA Plug, Diecast Shell, Gold plated contacts, Coloured finish, Flexible coloured grommet.	Red	ACPR-RED
			Black	ACPR-BLK
			Yellow	ACPR-YEL
			White	ACPR-WHT
			Blue	ACPR-BLU
			Green	ACPR-GRN
		RCA Plug, Diecast Shell, Gold plated contacts, Satin finish, Flexible coloured grommet.	Satin / Red	ACPR-SRD
			Satin / Black	ACPR-SBK
			Satin / Yellow	ACPR-SYL
			Satin / White	ACPR-SWH
			Satin / Blue	ACPR-SBL
			Satin / Green	ACPR-SGR
		RCA Jack, Diecast Shell, Gold plated contacts, Coloured finish, Flexible coloured grommet.	Red	ACJR-RED
			Black	ACJR-BLK
			Yellow	ACJR-YEL
			White	ACJR-WHT
			Blue	ACJR-BLU
			Green	ACJR-GRN
		RCA Jack, Diecast Shell, Gold plated contacts, Satin finish, Flexible coloured grommet.	Satin / Red	ACJR-SRD
			Satin / Black	ACJR-SBK
			Satin / Yellow	ACJR-SYL
			Satin / White	ACJR-SWH
			Satin / Blue	ACJR-SBL
			Satin / Green	ACJR-SGR
		RCA Plug, Shortened Diecast Shell, Gold plated contacts, Black Chrome finish, Flexible coloured grommet.	Red	ACPL-CRD
			Black	ACPL-CBK
			Yellow	ACPL-CYL
			White	ACPL-CWH
			Blue	ACPL-CBL
			Green	ACPL-CGR

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



RCA Jack, Diecast Shell, Gold plated contacts, Nickel finish shell, coloured insulator.

Red	ACJD-RED
Black	ACJD-BLK
Yellow	ACJD-YEL
White	ACJD-WHT
Blue	ACJD-BLU
Green	ACJD-GRN

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

PART NUMBER BREAKDOWN

M SERIES RCA

E. G . **ACPR-RED BULK**
AC (Series Prefix), **P**lug, **R**(Shell type), **RED** (Shell and Grommet Colour),
Bulk Packaged.

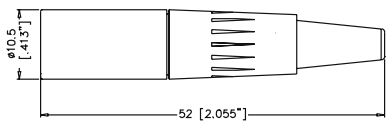
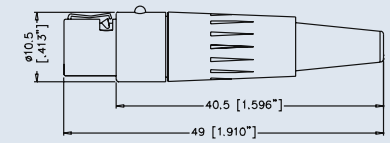
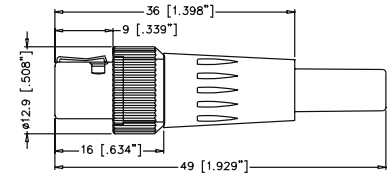
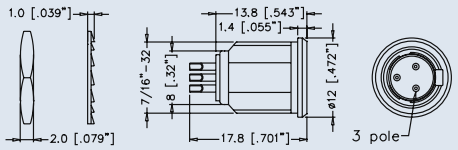
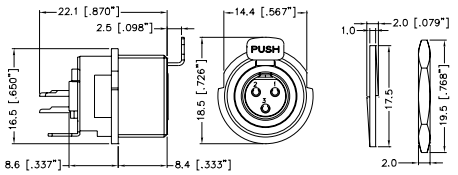
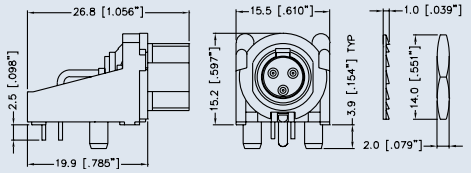
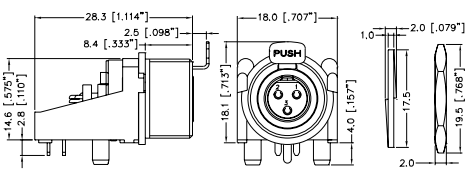
SERIES PREFIX	SHELL TYPE	SHELL FINISH	PACKAGING
AC	P	R	-	RED	BULK

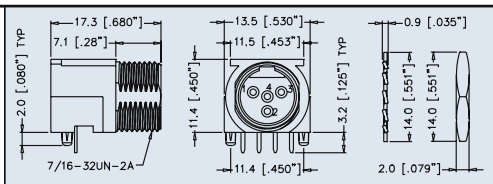
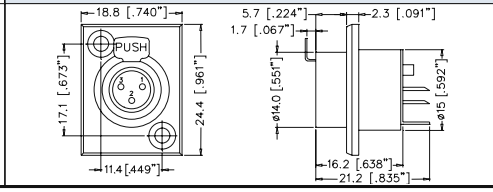
SERIES PREFIX	AC	=	Series Prefix
CONTACT TYPE	J	=	RCA Female Jack
	P	=	RCA Male Plug
SHELL TYPE	R	=	Regular Shell Length
	L	=	Short Shell Length
	D	=	Chassis Jack ‘D’ Shell
SHELL AND GROMMET COLOUR	RED	=	Red, Red Grommet
	BLK	=	Black, Black Grommet
	YEL	=	Yellow, Yellow Grommet
	WHT	=	White, White Grommet
	BLU	=	Blue, Blue Grommet
	GRN	=	Green, Green Grommet
	SRD	=	Satin Nickel,Red Grommet
	CRD	=	Black Chrome, Red Grommet
	SBK	=	Satin Nickel, Black Grommet
	CBK	=	Black Chrome, Black Crommet
	SYL	=	Satin Nickel, Yellow Grommet
	CYL	=	Black Chrome, Yellow Grommet
	SWH	=	Satin Nickel, White Grommet
	CWH	=	Black Chrome, White Grommet
	SBL	=	Satin Nickel, Blue Grommet
	CBL	=	Black Chrome, Blue Grommet
	SGR	=	Satin Nickel, Green Grommet
	CGR	=	Black Chrome, 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

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 124 **Specifications: page 125**
PCB Footprints: page 126 **Panel Cutouts: page 126**

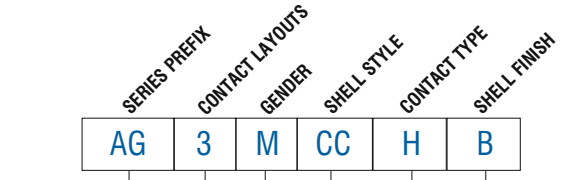
PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		Male cable connector, Machined contacts, Nickel Finish	3 pole	AG3M
			4 pole	AG4M
			5 pole	AG5M
			6 pole	AG6M
		Female cable connector, Stamped contacts, Nickel Finish	3 pole	AG3F
			4 pole	AG4F
			5 pole	AG5F
			6 pole	AG6F
		Female cable connector with locking ring, Stamped contacts, Nickel Finish.	3 pole	AG3FL
			4 pole	AG4FL
			5 pole	AG5FL
			6 pole	AG6FL
		Male chassis connector, Machined contacts, Nickel Finish	3 pole	AG3MCC
			4 pole	AG4MCC
			5 pole	AG5MCC
			6 pole	AG6MCC
		Female chassis connector, Stamped contacts, Nickel Finish	3 pole	AG3FCE
			4 pole	AG4FCE
			5 pole	AG5FCE
			6 pole	AG6FCE
		Male chassis connector, Horizontal PCB, Machined contacts, Nickel Finish	3 pole	AG3MCCH
			4 pole	AG4MCCH
			5 pole	AG5MCCH
			6 pole	AG6MCCH
		Female chassis connector, Horizontal PCB, Stamped contacts, Nickel Finish	3 pole	AG3FCCH
			4 pole	AG4FCCH
			5 pole	AG5FCCH
			6 pole	AG6FCCH

		Male chassis connector, Horizontal PCB, Machined contacts, Thermoplastic shell	4 pole	AG4MPCH
		Female chassis connector, Stamped contacts, Nickel Finish	3 pole	AG3FCRV
			4 pole	AG4FCRV
			5 pole	AG5FCRV
			6 pole	AG6FCRV

PART NUMBER BREAKDOWN

G TYPE CONNECTORS

E. G . **AG3MCCHB**
AG (Series Prefix), **3** contacts, **M**ale, **C**hassis **C**onnector,**H**orizontal PCB Contacts, **B**lack finish.



SERIES PREFIX	AG	=	Series Prefix
CONTACT LAYOUTS	3	=	3 Contacts
	4	=	4 Contacts
	5	=	5 Contacts
	6	=	6 Contacts
GENDER	F	=	Female Socket Contacts
	M	=	Male Pin Contacts
	Blank	=	Cable Connector Standard (Male or Female)
SHELL STYLE	J	=	Cable Connector Large Cable clamp / boot O.D (Male or Female)
	L	=	Cable Connector with locking ring (Female)
	LL	=	Latchless (Chassis Connector)
	CC	=	Chassis Connector Circular Metal (Male)
	CE	=	Rear Mount (Chassis Connector)
	CM	=	Mid Mount (Chassis Connector)
	CR	=	Chassis Connector Rectangular Metal (Female)
	PC	=	Chassis Connector Plastic (Male)
	Blank	=	Solder Buckets (All styles except PC, CR)
CONTACT TYPE	H	=	Horizontal PCB (Style CC, PC only)
	V	=	Vertical PCB (Style CR only)
	Blank	=	Nickel Plated Finish
SHELL FINISH	B	=	Black Finish

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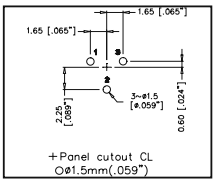
STANDARD DATA G TYPE

		VALUE			
GENERAL CHARACTERISTICS	Number of contacts	3	4	5	6
	Termination	Printed Circuit Board (PCB) or Solder Bucket			
	Flammability	UL94V-0			
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU			
ELECTRICAL CHARACTERISTICS	Service Voltage RMS[1)]	1000V	1000V	1000V	250V
	Test Voltage AC RMS	125V AC			
	Current carrying capacity	5A	5A	4A	1.2A
	Typicial Contact Resistance	≤10mΩ			
	Insulation Resistance (initial)	≥510MΩ			
	Insulation Resistance (After damp heat test)	≥10MΩ			
CLIMATIC CHARACTERISTICS	Protection Class	IP00			
	Operating Temperature	-30˚C to +80˚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 C5210P			
	- Plating	Gold over Silver plated			
	Latch Lock and Spring	SUS (AISI - 301) - Nickel Plated			
	Adaptor	PPS - Black			
	Cable Clamp	Bronze - Nickel Plated			
	Boot/Backshell	ABS - Black			
	Grommet	PU - Black			

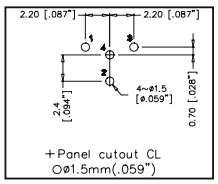
**Approximate weight in grams not include packaging. Please contact us for exact weight for shipping purposes.

Rev 2 - 03/2013

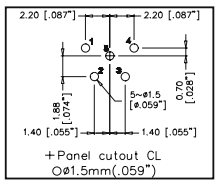
PANEL CUTOUTS
- CONNECTOR SIDE OF PCB



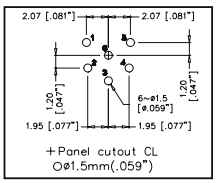
AG3MCC



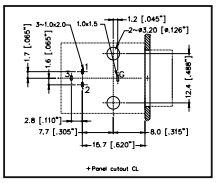
AG4MCC



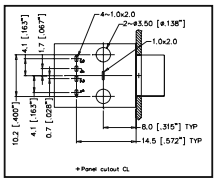
AG5MCC



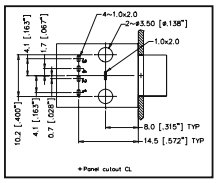
AG6MCC



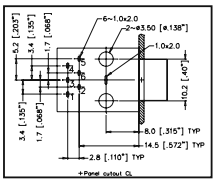
AG3MCCH
AG3FCCH



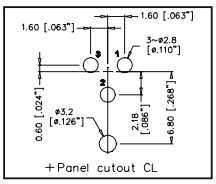
AG4MCCH
AG4FCCH



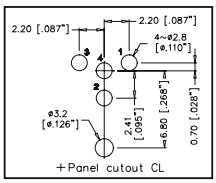
AG5MCCH
AG5FCCH



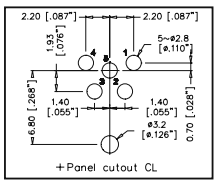
AG6MCCH
AG6FCCH



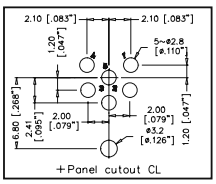
AG3FCRV



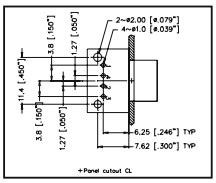
AG4FCRV



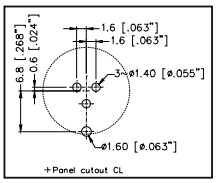
AG5FCRV



AG6FCRV

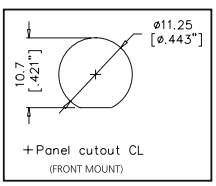


AG4MPCH

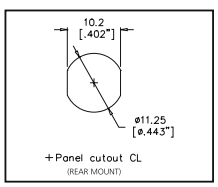


AG3FCE

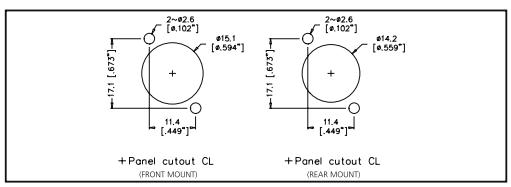
PANEL CUTOUTS
- FRONT VIEW



AG3MCC
AG4MCC
AG5MCC
AG6MCC



AG3MCCH
AG4MCCH
AG5MCCH
AG6MCCH
AG4MPCH



AG3FCRV
AG4FCRV
AG5FCRV
AG6FCRV

MULTIPIN CONNECTORS

Amphenol has an extensive range of circular and rectangular multi-pin connectors ideally suited to the entertainment industry. Featuring rugged housings and precision made contacts these connectors have proven themselves in the most demanding of applications. The extensive arrangement of different connector sizes and contact numbers ensure we can offer a solution to your multi-pin wiring applications.

Applications

- Audio Cables and Snakes
- Lighting control
- Concert Touring Systems
- Outside Broadcast Systems

Features / Options - MP-41 Series

- 13 to 85 pins with Crimp / Solder bucket contacts
- 150 pins with Crimp contacts only
- 4 to 48 channel
- Gold plated contacts
- Synthetic inserts
- Environmental resistant
- Positive Bayonet locking
- PG cable gland
- 2000 mating cycles
- Bayonet wear pins
- Extended coupling ring
- Metal Housings

Features / Options - MP-62 Series

- 39 or 61 Solder bucket contacts
- Gold plated contacts
- Neoprene inserts
- Environmental resistant
- Positive Bayonet locking
- PG cable gland or NPT thread
- Metal Housings

Ordering Codes

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

Simple steps to guide you in using this catalogue

1) Identify the product group listed in Contents on page 1 and go directly to that page number.

2) Each product group cover page then details information and options available.

3) Refer to the product detail pages and identify the product you require pictorially.

4) Read the product description column for the products standard features.

5) Use pins column to determine number of contacts.

6) Identify part number.

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.

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MP-41 SERIES

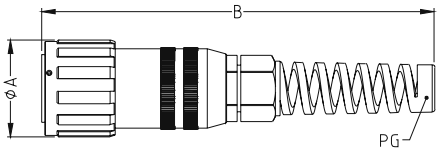
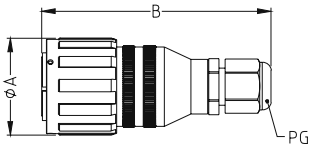
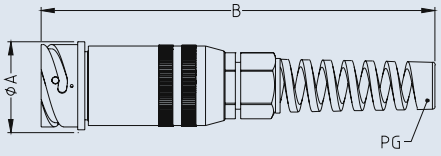
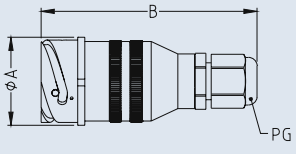
Amphenol's MP-41 series of multipin connectors utilise the same design principals of the rugged Mil-C-5015 military connectors. They can withstand high shock and vibration environments and are ideal for tough on-road applications. Featuring a quick mating bayonet coupling with an audible full mating feature ensures a positive connection every time. Available from 13 to 150 pins with contacts supplied with each connector as standard.

Features:

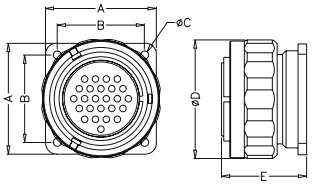
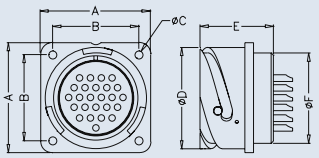
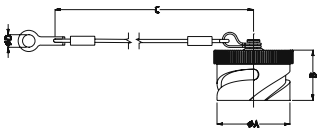
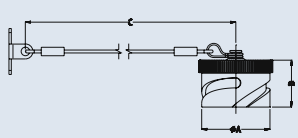
- 13 to 85 pins with Crimp/Solder bucket contacts
- 150 pins with Crimp contacts only
- 4 to 48 channels
- Gold plated contacts
- Synthetic insert
- Protective dust caps
- Industry standard compatible
- 2000 mating cycles
- Black finish
- Positive bayonet locking
- PG cable glands
- IP67 rated
- Metal housings

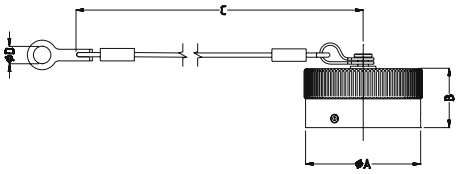
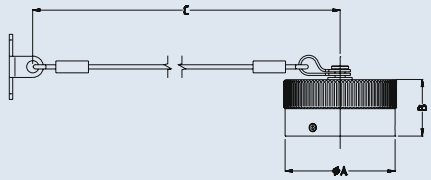
Options: NPT threaded backshells.

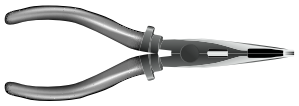
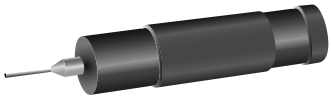
Crimp Tooling: page 131
Specifications: page 132
Part Number Breakdown: page 131
Wiring Information: 141

PRODUCT - FIGURE	Dimensions in mm (inches) DRAWING	Dimensions in mm (inches) A	B	PG	PINS	PART NUMBER	PART NUMBER With Dustcap
	Straight cable plug with socket contacts, Black finish, supplied complete with contacts.  13, 19, 25, 37 and 54 contact type  85 and 150 contact type	40.5 (1.60)	160 (6.30)	11	13	MP-4106-13S	MP-4106-13S-C
		44 (1.73)	171 (6.73)	13.5	19	MP-4106-19S	MP-4106-19S-C
		46.6 (1.83)	193 (7.60)	16	25	MP-4106-25S	MP-4106-25S-C
		54.3 (2.14)	210 (8.26)	21	37	MP-4106-37S	MP-4106-37S-C
		60.1 (2.36)	210 (8.26)	21	54	MP-4106-54S	MP-4106-54S-C
		73.3 (2.88)	137 (5.40)	29	85	MP-4106-85S	MP-4106-85S-C
		73.3 (2.88)	145 (5.70)	36	150	MP-4106-150S	MP-4106-150S-C
	Cable connecting receptacle with pin contacts, black finish, supplied complete with contacts.  13, 19, 25, 37 and 54 contact type  85 and 150 contact type	37.8 (1.49)	160 (6.30)	11	13	MP-4101-13P	MP-4101-13P-C
		41.1 (1.62)	171 (6.73)	13.5	19	MP-4101-19P	MP-4101-19P-C
		41.5 (1.63)	193 (7.60)	16	25	MP-4101-25P	MP-4101-25P-C
		51 (2.00)	210 (8.26)	21	37	MP-4101-37P	MP-4101-37P-C
		57.1 (2.25)	210 (8.26)	21	54	MP-4101-54P	MP-4101-54P-C
		70 (2.75)	137 (5.40)	29	85	MP-4101-85P	MP-4101-85P-C
		70 (2.75)	145 (5.70)	36	150	MP-4101-150P	MP-4101-150P-C

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

PRODUCT - FIGURE	Dimensions in mm (inches) DRAWING	Dimensions in mm (inches) A	B	C	D	E	F	PINS	PART NUMBER	PART NUMBER With Dustcap
	Panel plug with socket contacts, black finish, supplied complete with contacts. 	38 (1.49)	29.4 (1.15)	3.2 (0.13)	40.5 (1.60)	38.8 (1.53)	N/A	13	MP-4164-13S	MP-4164-13S-C
		41 (1.61)	31.8 (1.25)	3.2 (0.13)	44 (1.73)	38.8 (1.53)	N/A	19	MP-4164-19S	MP-4164-19S-C
		44.5 (1.75)	34.9 (1.37)	3.73 (0.14)	48.51 (1.91)	40.6 (1.60)	N/A	25	MP-4164-25S	MP-4164-25S-C
		50.8 (1.99)	39.7 (1.56)	3.73 (0.14)	54.3 (2.14)	42 (1.65)	N/A	37	MP-4164-37S	MP-4164-37S-C
		57 (2.24)	44.5 (1.75)	4.39 (0.17)	60.8 (2.40)	45 (1.77)	N/A	54	MP-4164-54S	MP-4164-54S-C
		69.8 (2.74)	55.5 (2.18)	4.39 (0.17)	73.3 (2.88)	45 (1.77)	N/A	85	MP-4164-85S	MP-4164-85S-C
		69.8 (2.74)	55.5 (2.18)	4.39 (0.17)	73.3 (2.88)	45 (1.77)	N/A	150	MP-4164-150S	MP-4164-150S-C
	Panel receptacle with pin contacts, black finish, supplied complete with contacts. 	38 (1.49)	29.4 (1.15)	3.23 (0.13)	34.2 (1.34)	34.5 (1.35)	29 (1.14)	13	MP-4102-13P	MP-4102-13P-C
		41 (1.61)	31.8 (1.25)	3.23 (0.13)	37.4 (1.47)	34.5 (1.35)	32.2 (1.26)	19	MP-4102-19P	MP-4102-19P-C
		44.5 (1.75)	34.9 (1.37)	3.73 (0.14)	40.9 (1.61)	35.7 (1.40)	35.3 (1.38)	25	MP-4102-25P	MP-4102-25P-C
		50.8 (1.99)	39.7 (1.56)	3.73 (0.14)	46.7 (1.83)	36.5 (1.44)	41.4 (1.62)	37	MP-4102-37P	MP-4102-37P-C
		57 (2.24)	44.5 (1.75)	4.30 (0.17)	53.4 (2.10)	38.5 (1.52)	47.8 (1.88)	54	MP-4102-54P	MP-4102-54P-C
		69.8 (2.74)	55.5 (2.18)	4.30 (0.17)	65.5 (2.57)	38.5 (1.52)	59 (2.32)	85	MP-4102-85P	MP-4102-85P-C
		69.8 (2.74)	55.5 (2.18)	4.30 (0.17)	65.5 (2.57)	38.5 (1.52)	59 (2.32)	150	MP-4102-150P	MP-4102-150P-C
	Plug protective dustcap to suit MP-4164 type. 	34.16 (1.35)	31.5 (1.24)	110 (4.33)	4.7 (0.18)	-	-	13	MP-25042-13S	-
		37.36 (1.47)	31.5 (1.24)	110 (4.33)	4.7 (0.18)	-	-	19	MP-25042-19S	-
		40.87 (1.61)	31.5 (1.24)	110 (4.33)	4.7 (0.18)	-	-	25	MP-25042-25S	-
		46.68 (1.84)	31.5 (1.24)	110 (4.33)	4.7 (0.18)	-	-	37	MP-25042-37S	-
		53.36 (2.10)	31.5 (1.24)	110 (4.33)	5.5 (0.22)	-	-	54	MP-25042-54S	-
		65.48 (2.58)	31.5 (1.24)	110 (4.33)	5.5 (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	-
	Receptacle protective dustcap to suit MP-4106 types. 	38.8 (1.53)	20.7 (0.81)	255 (8.07)	-	-	-	13	MP-25042-13L	-
		41.6 (1.64)	20.7 (0.81)	255 (8.07)	-	-	-	19	MP-25042-19L	-
		45.3 (1.78)	20.7 (0.81)	255 (8.07)	-	-	-	25	MP-25042-25L	-
		52.15 (2.05)	20.7 (0.81)	255 (8.07)	-	-	-	37	MP-25042-37L	-
		58.6 (2.30)	20.7 (0.81)	255 (8.07)	-	-	-	54	MP-25042-54L	-
		70.7 (2.78)	20.7 (0.81)	255 (8.07)	-	-	-	85	MP-25042-85L	-
		70.7 (2.78)	20.7 (0.81)	255 (8.07)	-	-	-	150	MP-25042-150L	-

PRODUCT - FIGURE	Dimensions in mm (inches) DRAWING	Dimensions in mm (inches) A	B	C	D	E	F	PINS	PART NUMBER
	Plug protective dustcap to suit MP-4102 types. 	34.16 (1.35)	31.5 (1.24)	110 (4.33)	4.7 (0.18)	-	-	13	MP-25043-13S
		37.36 (1.47)	31.5 (1.24)	110 (4.33)	4.7 (0.18)	-	-	19	MP-25043-19S
		40.87 (1.61)	31.5 (1.24)	110 (4.33)	4.7 (0.18)	-	-	25	MP-25043-25S
		46.68 (1.84)	31.5 (1.24)	110 (4.33)	4.7 (0.18)	-	-	37	MP-25043-37S
		53.36 (2.10)	31.5 (1.24)	110 (4.33)	5.5 (0.22)	-	-	54	MP-25043-54S
		65.48 (2.58)	31.5 (1.24)	110 (4.33)	5.5 (0.22)	-	-	85	MP-25043-85S
		65.48 (2.58)	31.5 (1.24)	110 (4.33)	5.5 (0.22)	-	-	150	MP-25043-150S
	Receptacle protective dustcap to suit MP-4101 types. 	38.8 (1.53)	20.7 (0.81)	255 (8.07)	-	-	-	13	MP-25043-13L
		41.6 (1.64)	20.7 (0.81)	255 (8.07)	-	-	-	19	MP-25043-19L
		45.3 (1.78)	20.7 (0.81)	255 (8.07)	-	-	-	25	MP-25043-25L
		52.15 (2.05)	20.7 (0.81)	255 (8.07)	-	-	-	37	MP-25043-37L
		58.6 (2.30)	20.7 (0.81)	255 (8.07)	-	-	-	54	MP-25043-54L
		70.7 (2.78)	20.7 (0.81)	255 (8.07)	-	-	-	85	MP-25043-85L
		70.7 (2.78)	20.7 (0.81)	255 (8.07)		-	-	150	MP-25043-150L

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
			150	MP-GUIDE-18
	N/A	Solder/Crimp Pin Contact	13-85 (Size 16)	MP-108400
		Crimp Pin Contact (Soldering of this contact is not recommended)	150 (Size 18)	MP-108300
	N/A	Solder/Crimp Socket Contact	13-85 (Size 16)	MP-108600
		Crimp Socket Contact (Soldering of this contact is not recommended)	150 (Size 18)	MP-108500

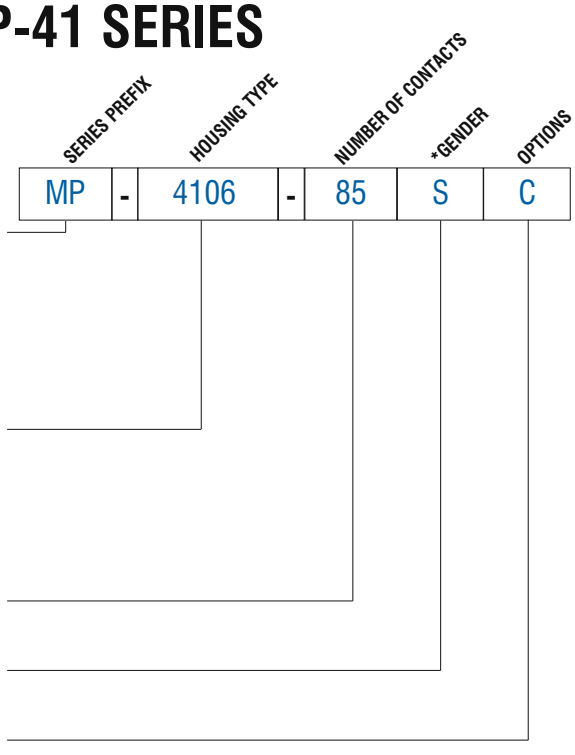
NOTE: Complete instructions for providing reliable crimped wire to contact terminations and inserting proprietary contacts in MP-41 Series connectors are available in publication Pi523 located on our website www.amphenolaudio.com.

PART NUMBER BREAKDOWN MP-41 SERIES

MULTIPIN CIRCULAR CONNECTORS

E. G . **MP-4106-85S**
Multipin, **4106** Cable Plug, **85** Contacts, **S** Female Socket Contacts,

SERIES PREFIX	MP	=	Series Prefix
HOUSING TYPE	4101	=	Inline cable connecting receptacle
	4102	=	Panel receptacle
	4106	=	Cable plug
	4164	=	Panel plug
	25042S	=	Dustcap for panel plug
	25042L	=	Dustcap for cable plug
	25043S	=	Dustcap for panel receptacle
	25043L	=	Dustcap for cable receptacle
NO. OF CONTACTS			13, 19, 25, 37, 54, 85, 150
GENDER *Not required for dustcap part numbers	P	=	Male pin contacts
	S	=	Female socket contacts
OPTIONS	C	=	Supplied with Dustcap



STANDARD DATA MP-41 SERIES

		VALUE						
GENERAL CHARACTERISTICS	Number of contacts	13	19	25	37	54	85	150
	Number of channels	4	6	8	12	16	28	48
	Termination	Solder / Crimp “Combo”						Crimp
	Wire Gauge - Stranded Wire	16AWG - 20AWG						18AWG
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU						
ELECTRICAL CHARACTERISTICS	Operating Voltage at Sea level - DC	250V*						250V*
	Operating Voltage at Sea level - AC	200V*						200V*
	Test Voltage AC RMS	1000V						1000V
	Current Carrying Capacity	13A						7.5A
	Typical Contact Resistance	3.46mΩ						11.25mΩ
	Insulation Resistance	5000MΩ						
CLIMATIC CHARACTERISTICS	Protection Class	IP67 (when mated)						
	Operating Temperature	-55°C to +125°C (-67°F to +257°F)						
MECHANICAL CHARACTERISTICS	Cable Retention	PG Gland						
	Mechanical Operations	2000 mating cycles						
MATERIALS	Connector / Shell Finish	Aluminium Alloy / Black						
	Insert	Synthetic Insert to MIL-R-3065						
	Male pin contact / Plating	Brass / Gold plated						
	Female socket contact / Plating	Brass / Gold plated						
CLAMPING CHARACTERISTICS	PG Gland	11	13.5	16	21		29	36
	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”)

Rev 2 - 03/2013

*Not suitable for domestic applications above 50V

Amphenol

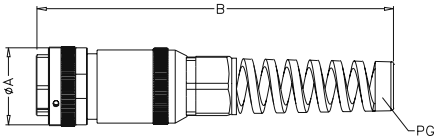
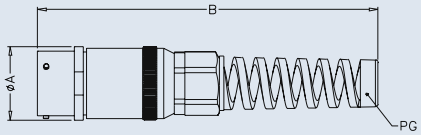
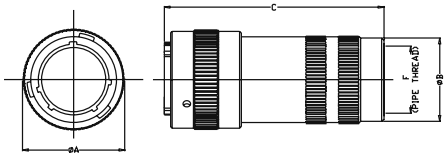
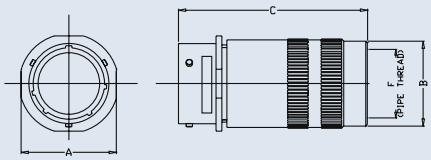
MP-62/MP-65 SERIES

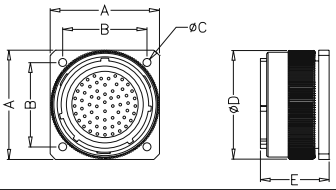
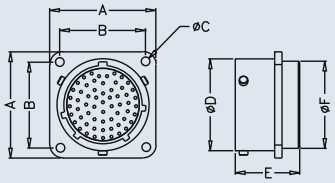
Amphenol's Multipin MP-62 series of circular connectors utilise the same design principles as the Mil-C-26482 military connectors. Featuring a three point quick mating bayonet coupling and five key polarisation ensuring a positive connection every time. Available in two contact pin layouts 39 and 61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

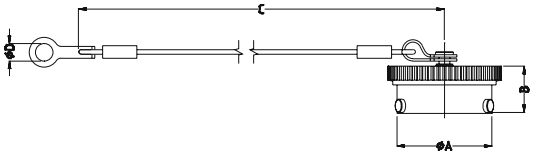
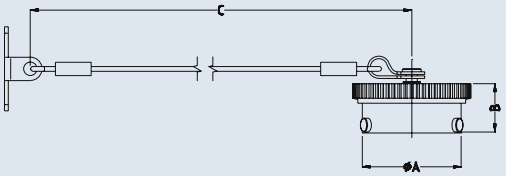
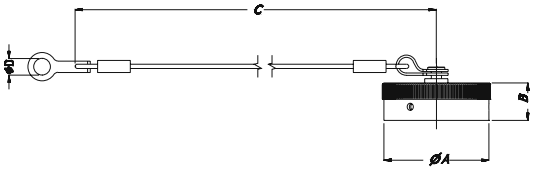
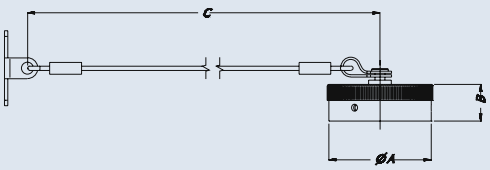
Features:

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

Specifications: page 135 **Wiring Info: page 140**

PRODUCT - FIGURE	Dimensions in mm (inches) DRAWING	Dimensions in mm (inches) A	B	PG	PINS	PART NUMBER	PART NUMBER With Dustcap
	Straight cable plug with pin contacts, Black finish, Gold plated solder contacts. 	38.9 (1.53)	181.5 (7.15)	16	39	MP-6216-39P	MP-6216-39P-C
		45.5 (1.80)	193 (7.60)	21	61	MP-6216-61P	MP-6216-61P-C
	Cable connecting receptacle with socket contacts, Black finish, Gold plated solder contacts. 	36.7 (1.45)	181.5 (7.15)	16	39	MP-6211-39S	MP-6211-39S-C
		43.0 (1.70)	193 (7.60)	21	61	MP-6211-61S	MP-6211-61S-C
	Straight cable plug with pin contacts, NPT 3/4" threaded backshell, Black finish, Gold plated solder contacts. 	38.9 (1.53)	90 (3.54)	NPT 3/4"	39	MP-6516-39P	MP-6516-39P-C
		45.5 (1.80)	100 (3.94)	NPT 3/4"	61	MP-6516-61P	MP-6516-61P-C
	Cable connecting receptacle with socket contacts, NPT 3/4" threaded backshell, Black finish, Gold plated solder contacts. 	36.7 (1.45)	90 (3.54)	NPT 3/4"	39	MP-6511-39S	MP-6511-39S-C
		43.0 (1.70)	100 (3.94)	NPT 3/4"	61	MP-6511-61S	MP-6511-61S-C

PRODUCT - FIGURE	Dimensions in mm (inches) DRAWING	Dimensions in mm (inches) A	B	C	D	E	F	PINS	PART NUMBER	PART NUMBER With Dustcap
	Panel plug with pin contacts, Black finish, Gold plated solder contacts. 	38.86 (1.53)	29.36 (1.16)	6-32 UNC	39.0 (1.54)	32 (1.26)	- -	39	MP-6256-39P	MP-6256-39P-C
		43.94 (1.73)	34.93 (1.38)	6-32 UNC	45.5 (1.80)	35 (1.38)	- -	61	MP-6256-61P	MP-6256-61P-C
	Panel receptacle plug with socket contacts, Black finish, Gold plated solder contacts. 	36.7 (1.44)	29.36 (1.15)	3.05 (0.12)	31.8 (1.25)	22.3 (0.87)	30.1 (1.18)	39	MP-6212-39S	MP-6212-39S-C
		43.0 (1.69)	34.93 (1.38)	3.74 (0.15)	38.1 (1.50)	22.3 (0.87)	36.4 (1.43)	61	MP-6212-61S	MP-6212-61S-C

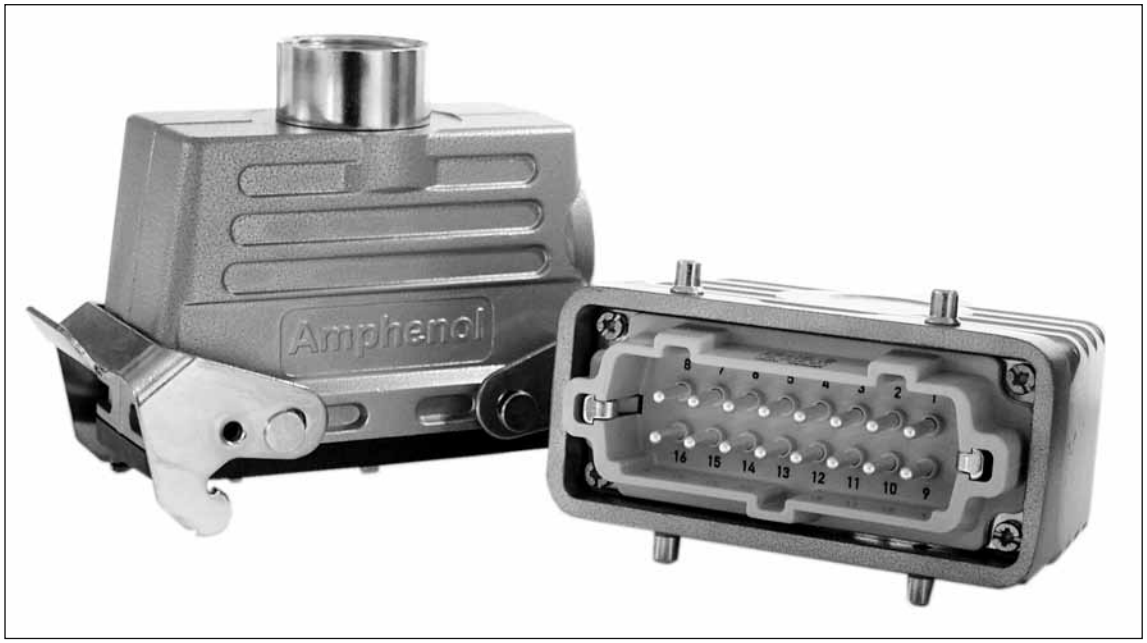
PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	Dimensions in mm (inches) A D	B	C		PINS	PART NUMBER
		Plug protective dustcap to suit MP-6256	31.7 (1.25)	15.9 (0.62)	127 (4.99)	4.40 (0.17)	39	MP-742-39S
			38.05 (1.50)	16.70 (0.66)	127 (4.99)	4.40 (0.17)	61	MP-742-61S
		Receptacle protective 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
		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
			38.05 (1.50)	16.70 (0.66)	127 (4.99)	4.40 (0.17)	61	MP-738-61S
		Receptacle protective dustcap to suit MP-6211	36.9 (1.45)	13.13 (0.52)	127 (4.99)	-	39	MP-738-39L
			43.14 (1.70)	14.15 (0.56)	127 (4.99)	-	61	MP-738-61L

STANDARD DATA MP-62 SERIES / MP - 65 SERIES

		VALUE	
GENERAL CHARACTERISTICS	Number of contacts	39	61
	Number of channels	12	20
	Termination	Solder	
	Wire Gauge - Stranded Wire	37 x 24AWG-20AWG 2 x 20AWG-16AWG	24AWG-20AWG
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU	
ELECTRICAL CHARACTERISTICS	Operating Voltage at Sea level - DC Operating Voltage at Sea level - AC	600V* 600V*	
	Test Voltage AC RMS	1500V	
	Current Carrying Capacity	37 x 7.5A 2 x 13A	7.5A
	Insulation Resistance	5000MΩ	
CLIMATIC CHARACTERISTICS	Protection Class	IP67 (when mated)	
	Operating Temperature	-55°C to +125°C (-67°F to +257°F)	
MECHANICAL CHARACTERISTICS	Cable Retention	PG Gland / NPT Thread	
	Mechanical Operations	500 mating cycles (minimum)	
MATERIALS	Connector / Shell Finish	Aluminium Alloy / Black	
	Insert	Neoprene	
	Male pin contact machined - Plating	Brass / Gold plated	
	Female socket contact machined - Plating	Brass / Gold plated	
CLAMPING CHARACTERISTICS	PG Gland	16	21
	Cable Clamping range mm (inches)	9-14 (0.35”-0.55”)	13-18 (0.51”-0.70”)

Rev 3 - 03/2013

*Not suitable for domestic applications above 50V



146 SERIES RECTANGULAR CONNECTORS

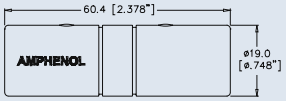
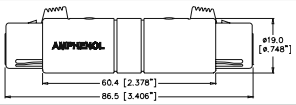
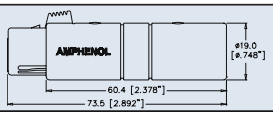
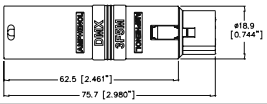
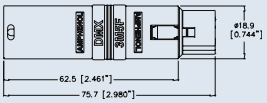
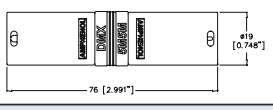
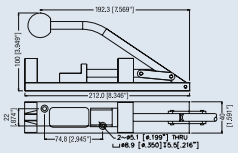
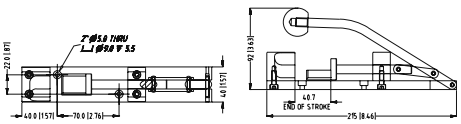
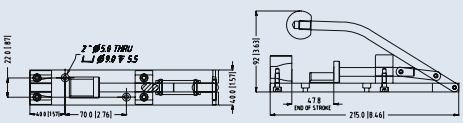
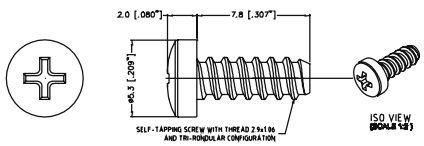
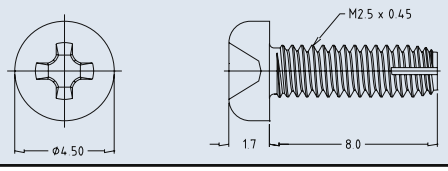
Amphenol Tuchel C146 series rectangular connectors feature modular components ensuring a vast range of different features and benefits for the end user. The zinc diecast aluminum housings are finished in a durable powder coat and available in either top or side entry. Connector coupling is achieved via 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

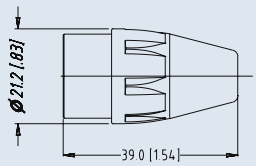
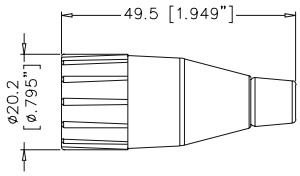
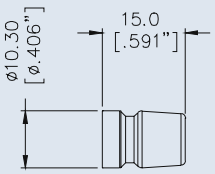
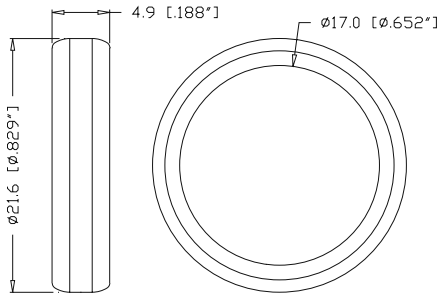
Amphenol has over 25 years experience in fibre optics dating back to their development of the first industry standard connector, the SMA. Today we can offer a complete range of products including Hybrid Fibre optic connectors for HDTV broadcast cameras SMPTE 304M compliant and ruggedised connectors and cable assemblies for indoor or outdoor applications.

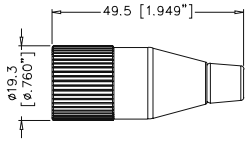
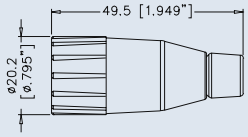
ACCESSORIES

- Colour coded boots(backshells) and rings to assist in cable identification.
- In-line adaptors. Pre-wired for convenience.
- Termination tool for fast assembly of cable connectors.
- Mounting hardware.
- Metal boots(backshells) for rugged environments.

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole male to 3 pole male adapter, Pre wired, Metal Shell	Nickel Finish	AC3M3MW
			Black Finish	AC3M3MBW
		XLR 3 pole female to 3 pole female adapter, Pre wired, Metal Shell	Nickel Finish	AC3F3FW
			Black Finish	AC3F3FBW
		XLR 3 pole female to 3 pole male adapter, Pre wired, Metal Shell	Nickel Finish	AC3F3MW
			Black Finish	AC3F3MBW
		XLR 3 pole female to 5 pole male adapter, Pre wired, Metal Shell	Nickel Finish	AC3F5MW
		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
		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
		B Type Connector Mounting, Self-Tapping Screw	M2.5	52500005-732

ACC.

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		AX Series Coloured Boot	Brown	AX-BOOT-1
			Red	AX-BOOT-2
			Orange	AX-BOOT-3
			Yellow	AX-BOOT-4
			Green	AX-BOOT-5
			Blue	AX-BOOT-6
			Violet	AX-BOOT-7
			Grey	AX-BOOT-8
			White	AX-BOOT-9
			Black	AX-BOOT
			Clear	AX-BOOT-CLR
		AC Coloured Boot / Backshell **Note:** Number Identification optional. (Please contact us.)	Brown	AC-NUT-BRN
			Red	AC-NUT-RED
			Orange	AC-NUT-ORG
			Yellow	AC-NUT-YEL
			Green	AC-NUT-GRN
			Blue	AC-NUT-BLU
			Violet	AC-NUT-VIO
			Grey	AC-NUT-GRY
			White	AC-NUT-WHT
		Description: Coloured Grommets to suit AC Series, T Series and Musician range	Brown	AC-GROMMET-BRN
			Red	AC-GROMMET-RED
			Orange	AC-GROMMET-ORG
			Yellow	AC-GROMMET-YEL
			Green	AC-GROMMET-GRN
			Blue	AC-GROMMET-BLU
			Violet	AC-GROMMET-VIO
			Grey	AC-GROMMET-GRY
			White	AC-GROMMET-WHT
		AC Coloured Identification Rings – Plain and Numbered **Note:** Custom number Identification optional. (Please contact us.)	Brown	AC-RING-BRN
			Red	AC-RING-RED
			Orange	AC-RING-ORG
			Yellow	AC-RING-YEL
			Green	AC-RING-GRN
			Blue	AC-RING-BLU
			Violet	AC-RING-VIO
			Grey	AC-RING-GRY
			White	AC-RING-WHT
			Red #1-24	AC-RING-RED-PK1
			Yellow #1-24	AC-RING-YEL-PK1
			Blue #1-24	AC-RING-BLU-PK1
			Red #1-48	AC-RING-RED-PK2
			Yellow #1-48	AC-RING-YEL-PK2
			Blue #1-48	AC-RING-BLU-PK2

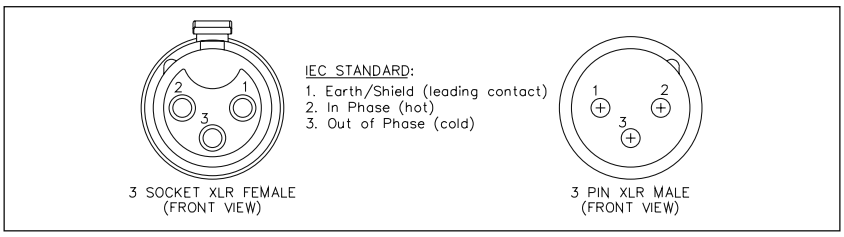
PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		AC Metal Boot / Back-shell, Black Finish	Not Applicable	AC-NUT-METAL
		AC Thermoplastic Boot / Backshell. Suitable for use with 8.5mm (0.33”) O.D. cable.	Not Applicable	AC-NUT-J-BLK

ACC.

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

CONNECTOR WIRING INFORMATION

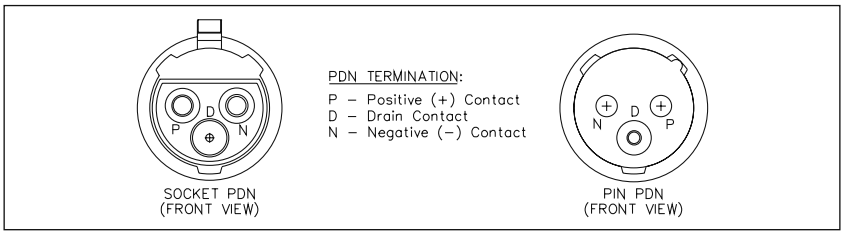
XLR (Microphone / Patch Cables)



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.

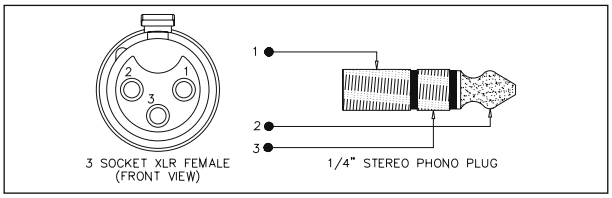
PDN (Speaker Cables)



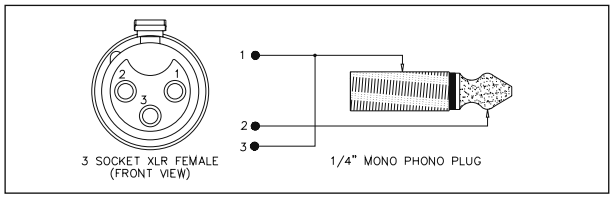
The PDN stands for Positive, Drain and Negative. P pin is used for the Positive (+) line and the N pin is for the return line. D pin is a leading contact that engages at interconnection, before the major contacts. If applicable, solder the cable screen to this contact.

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

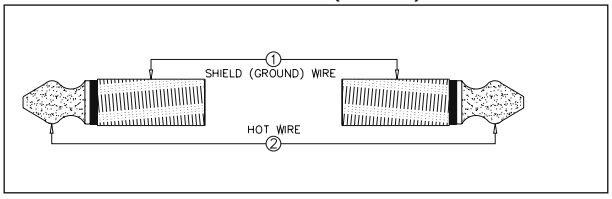
MICROPHONE CABLE - BALANCED



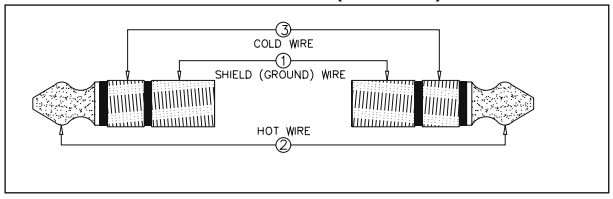
MICROPHONE CABLE - UNBALANCED



INSTRUMENT / LINE CABLE (MONO)



INSTRUMENT / LINE CABLE (STEREO)



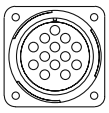
Amphenol

CONNECTOR WIRING INFORMATION

MP Series

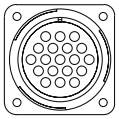
MP-41 Series
4 Ch –13 pin

Ch	+	-	G
1	B	C	E
2	F	K	H
3	J	D	A
4	N	M	G
General Ground	L		



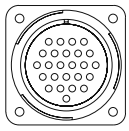
MP-41 Series
6 Ch – 19 pin

Ch	+	-	G
1	L	M	U
2	A	N	B
3	K	J	T
4	V	P	C
5	H	S	G
6	R	D	E
General Ground	F		



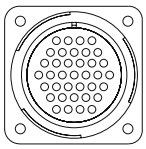
MP-41 Series
8 Ch –25 pin

Ch	+	-	G
1	A	E	F
2	G	C	B
3	D	H	J
4	M	L	K
5	Q	P	N
6	W	S	R
7	T	X	Y
8	Z	V	U
General Ground	a		



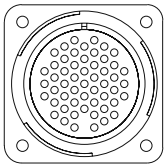
MP-41 Series
12 Ch–37 pin

Ch	+	-	G
1	E	F	A
2	B	C	G
3	H	J	D
4	S	T	K
5	L	M	U
6	V	W	N
7	P	R	X
8	a	b	g
9	c	d	j
10	e	f	m
11	n	p	h
12	r	s	k
General Ground	z		



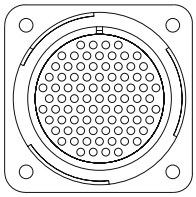
MP-41 Series
16 Ch–54 pin

Ch	+	-	G
1	W	f	r
2	J	R	a
3	k	v	AC
4	E	M	V
5	e	q	y
6	B	H	P
7	Z	j	u
8	D	L	U
9	d	p	x
10	A	G	O
11	Y	h	t
12	C	K	T
13	c	n	w
14	F	N	X
15	g	s	AB
16	S	b	m
General Ground	AG		



MP-41 Series
28 Ch–85 pin

Ch	+	-	G
1	A	B	C
2	E	F	H
3	J	K	L
4	N	P	R
5	S	T	U
6	X	Y	Z
7	a	b	c
8	d	f	g
9	h	i	j
10	k	m	n
11	p	q	r
12	t	u	v
13	w	x	y
14	z	AA	AB
15	AC	AD	AE
16	AF	AH	AJ
17	AK	AL	AM
18	AP	AR	AS
19	AT	AU	AV
20	AW	AX	AY
21	AZ	BA	BB
22	BC	BD	BE
23	BJ	BK	BL
24	BM	BN	BP
25	BS	BT	BU
26	BV	BR	BF
27	BH	AN	s
28	W	M	D
General Ground	V		



MP-41 Series
48 Ch - 150 pin

Ch	+	-	G
1	1	2	3
2	5	6	7
3	8	9	10
4	11	12	13
5	14	15	16
6	17	18	19
7	21	22	23
8	24	25	26
9	27	28	29
10	20	30	31
11	32	33	34
12	35	36	37
13	38	39	40
14	41	42	43
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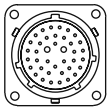
17	50	51	52
18	53	54	55
19	57	58	59
20	60	61	62
21	63	64	65
22	66	67	68
23	69	70	71
24	72	73	74
25	75	76	77
26	78	79	80
27	82	83	84
28	85	86	87
29	88	89	90
30	91	92	93
31	94	95	96
32	97	98	99
33	100	101	102
34	103	104	105
35	56	81	106
36	107	108	109
37	110	111	112
38	113	114	115
39	116	117	118
40	119	120	121
41	122	123	124
42	125	126	127
43	139	128	129
44	130	131	132
45	133	134	135
46	136	137	138
47	140	141	142
48	143	144	145
General Ground	150		

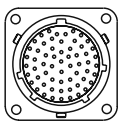
MP-62 Series
12 Ch–39 pin

Ch	+	-	G
1	p	n	q
2	W	A	X
3	N	f	P
4	L	e	M
5	J	d	K
6	G	c	H
7	E	b	F
8	D	a	Z
9	C	B	Y
10	U	j	V
11	i	h	T
12	R	g	S
General Ground	N/A		



MP-62 Series
20 Ch–61 pin

Ch	+	-	G
1	JJ	HH	NN
2	MM	KK	PP
3	BB	AA	CC
4	s	FF	W
5	r	EE	V
6	e	D	x
7	f	E	y
8	q	DD	U
9	S	p	T
10	P	N	R
11	m	k	n
12	L	K	M
13	J	i	j
14	H	G	h
15	g	F	z
16	d	C	w
17	B	A	c
18	b	a	Z
19	v	u	Y
20	t	GG	X
General Ground	N/A		



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PRODUCT SAFETY INFORMATION

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

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.

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