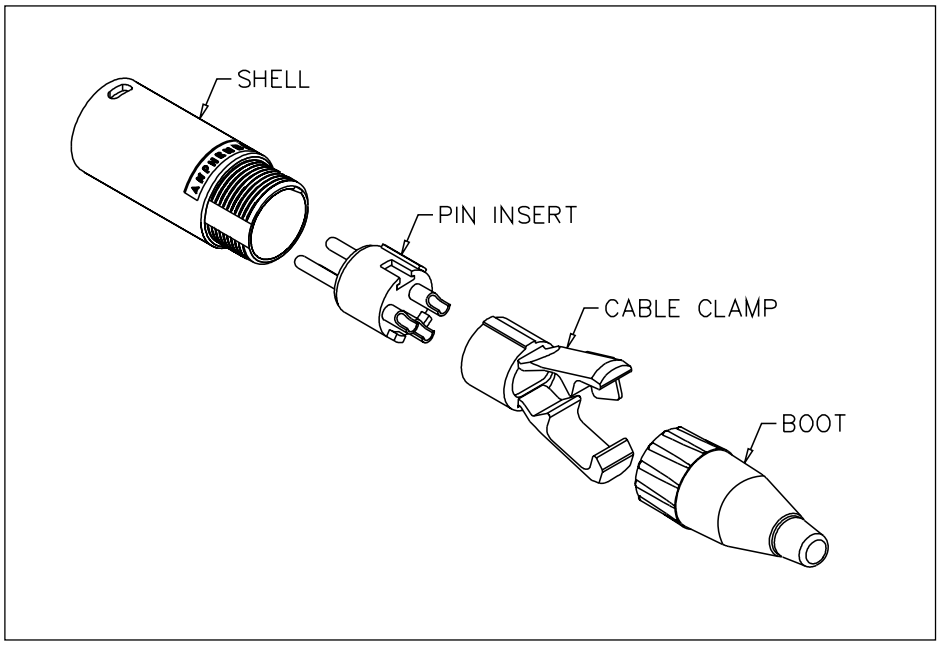
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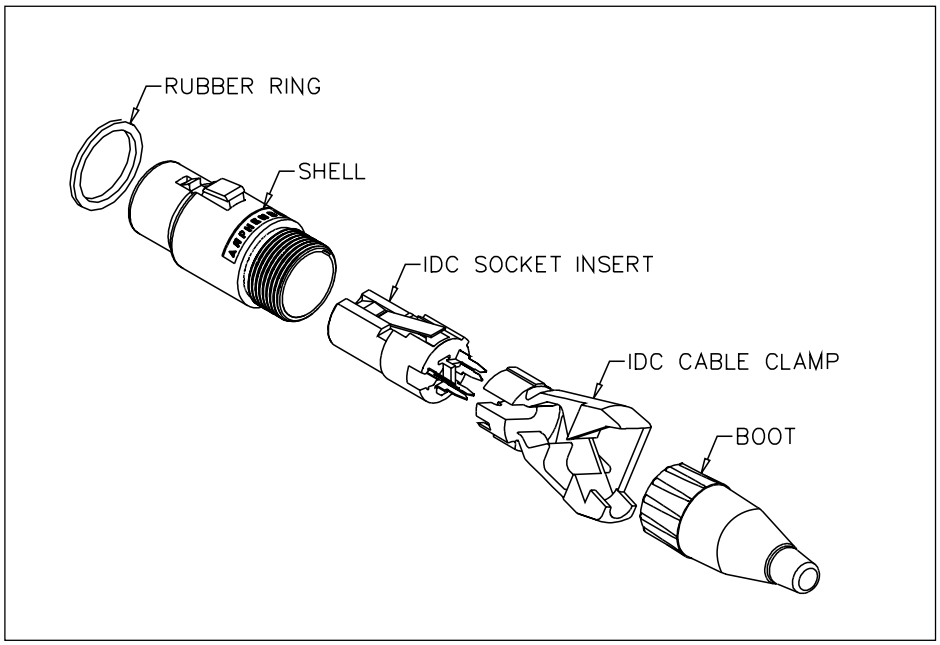
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ISO VIEW OF AC3MM



ISO VIEW OF AC3FI



AMPHENOL AUSTRALIA WEBSITE

www.amphenol.com.au

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

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.

Applicable Patents

US Patent No.s 5,305,547 and 5,439,388

Simple steps to guide you in using this catalogue

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

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

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

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

5) Use variations column to determine your choice.

6) Identify part number.

7) In the event the particular option you require is not listed please refer to the part number breakdown page at the end of each section.

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

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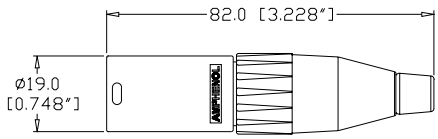
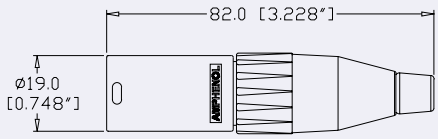
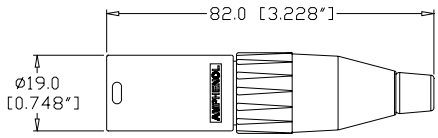
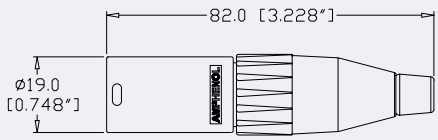
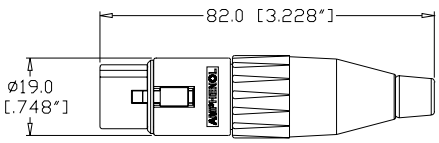
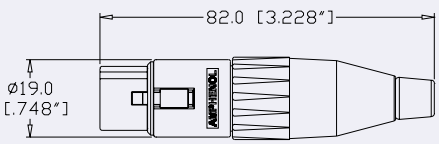


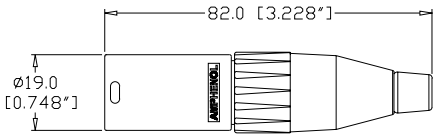
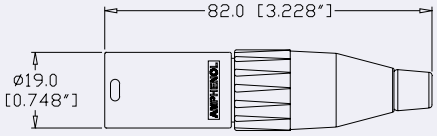
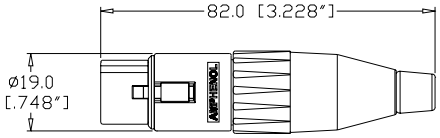
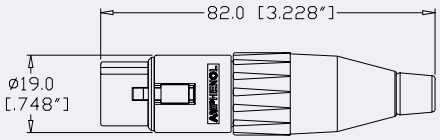
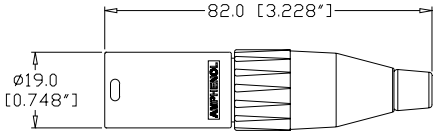
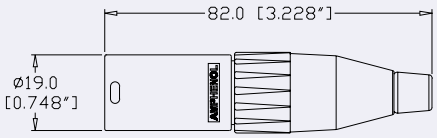
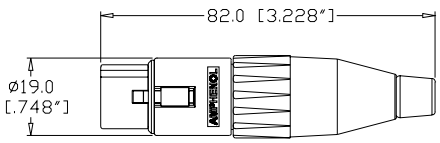
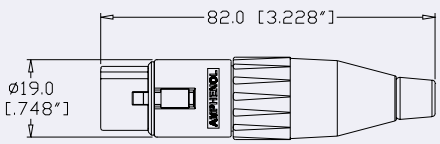
Features:
- Zinc Diecast Shell.
- Solder Bucket connections.
- "Jaws" Cable Retention System.
- Contact layouts in 3, 4, 5, 6A and 7.
- Precision machined or Stamped contacts.
- Leading first mate last break socket contact.
- Quick and easy assembly without screws – by hand or portable termination tool.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

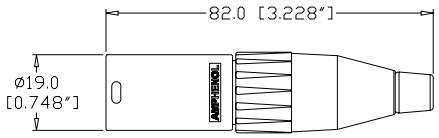
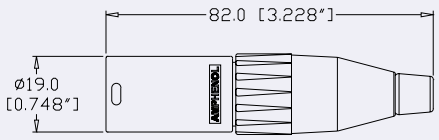
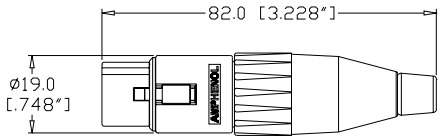
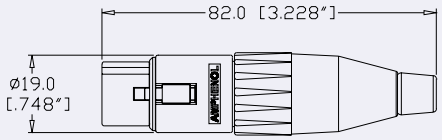
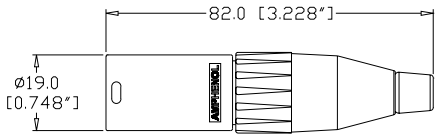
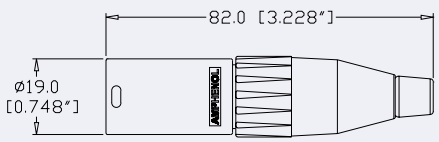
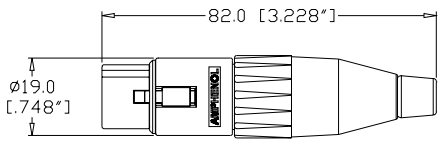
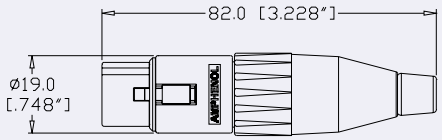
Options: Stamped Contacts (3 contact only), Gold plated contacts, Large or Small Jaws Cable Clamp, Black Finish Shell, Bulk Pack, Coloured Boots / Backshells

Part Number Breakdown: Page 7

Specifications: Page 13-14

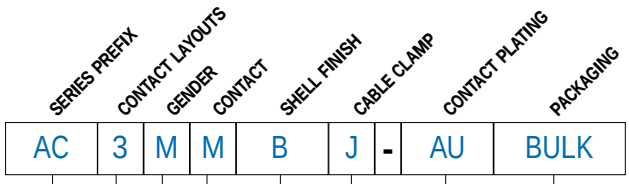
PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole male, Machined contacts, Nickel Finish, Jaws cable clamp	Standard	AC3MM
			Gold Plated Contacts	AC3MM-AU
			Large Cable Clamp	AC3MMJ
			Bulk Pack	AC3MM BULK
		XLR 3 pole male, Machined contacts, Black Finish, 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, Stamped 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, Stamped 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

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	Blank	=	Stamped Contacts
	M	=	Machined Contacts (Applicable 3 male pin contacts only)
	NOTE: 4 - 7 contact connectors have machined contacts as standard. They are not available in stamped contacts.		
SHELL FINISH	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	Blank	=	Standard Plating (Silver or Tin - Refer to Standard Data.) NOTE: 7 Contact is gold plated as standard.
	AU	=	Gold Plated
PACKAGING	Blank	=	Individual Bags
	BULK	=	Bulk Packed

Note: All AC Series Connectors are available with optional colour coded boot / backshell.
Refer to page 60 and simply add colour to end of part number. Example: AC3MM - RED

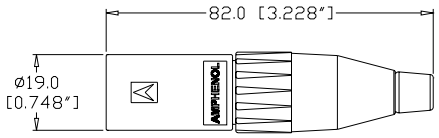
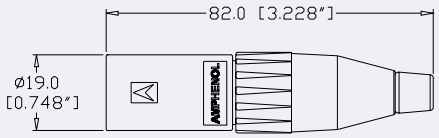
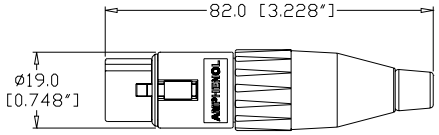


Features:

- 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.)

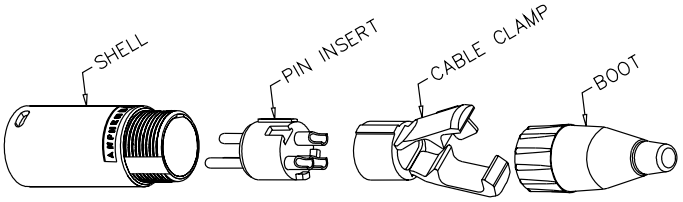
Options: Gold Plated Contacts, Stamped Contacts (3 Contact only), Bulk Pack, Coloured Boots / Backshells
3, 4, 5, 6A and 7 Contacts.

Specifications: Page 13-14

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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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.

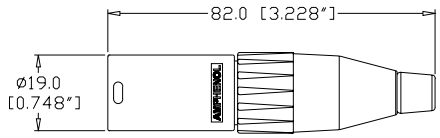
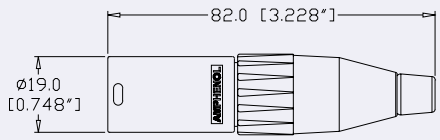
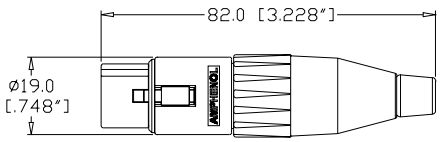
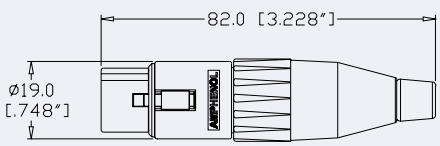
Recommended Cable Dimensions: Page 14

Features:

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

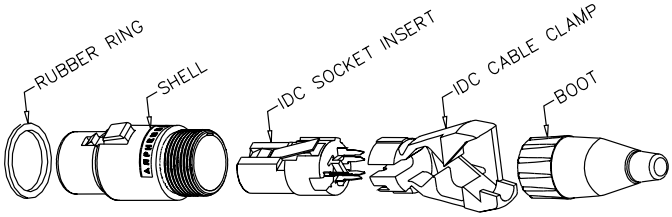
Options: Gold plated contacts, Black Finish Shell, Bulk Pack, Coloured Boots / Backshells.

Part Number Breakdown:Page 10 Specifications: Page13-14
Assembly Instructions: Page 12

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 14 are followed.

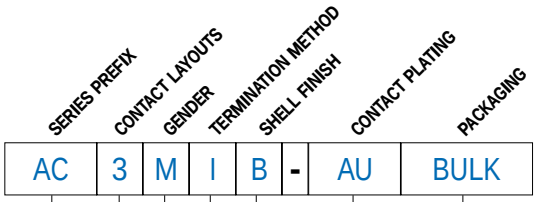
ISO VIEW OF AC3FI





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 60 and simply add colour to end of part number. Example: AC3MI - RED



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.

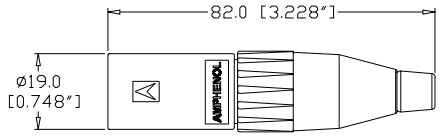
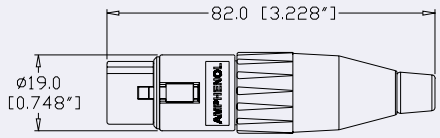
Recommended Cable Dimensions: Page 14

Features:

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

Options: Gold plated contacts, Bulk Pack, Coloured Boots / Backshells

Part Number Breakdown:Page 11 Specifications: Page 13-14
Assembly Instructions: Page 12

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

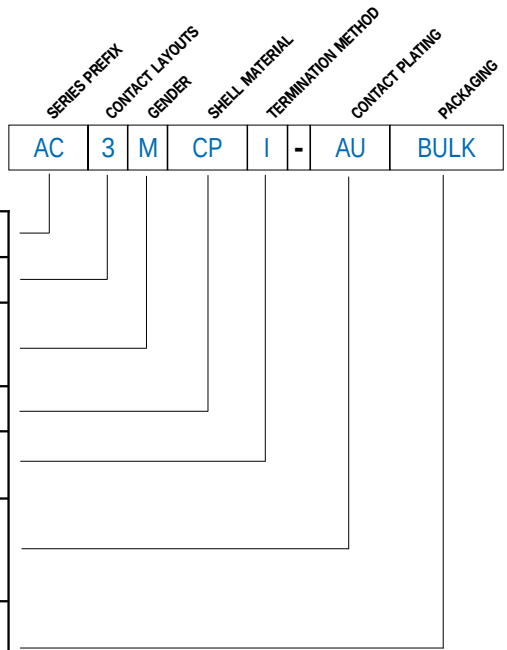
Note: Amphenol can not guarantee the termination performance unless the recommended cable dimensions listed on page 14 are followed.

PART NUMBER BREAKDOWN

IDC THERMOPLASTIC SHELL TYPE

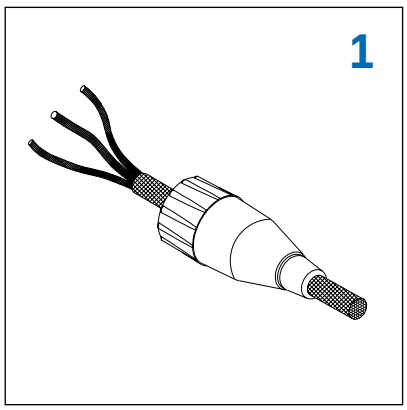
E. G . **AC3MCPI-AU BULK**
AC (Series Prefix), **3** contacts, **M**ale, **CP** (Thermoplastic Shell), **I**DC Contacts, - **AU** (Gold Plated Contacts), **Bulk** Packaged.

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

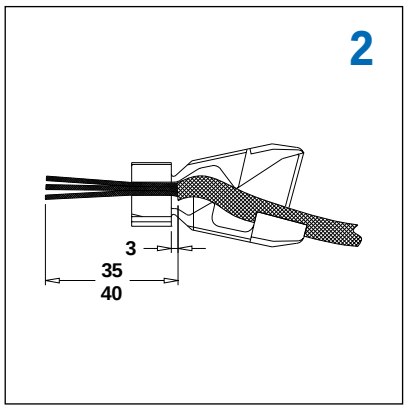


Note: All AC Series Connectors are available with optional colour coded boot / backshell. Refer to page 60 and simply add colour to end of part number.
Example: AC3MCPI - RED

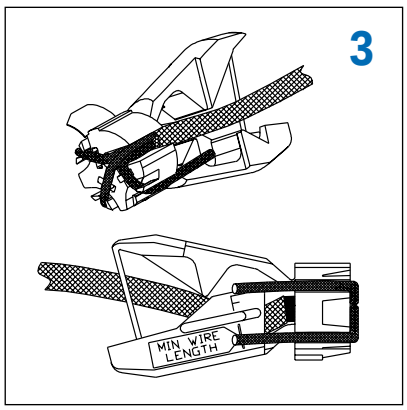
AC IDC SERIES CABLE ASSEMBLY INSTRUCTIONS



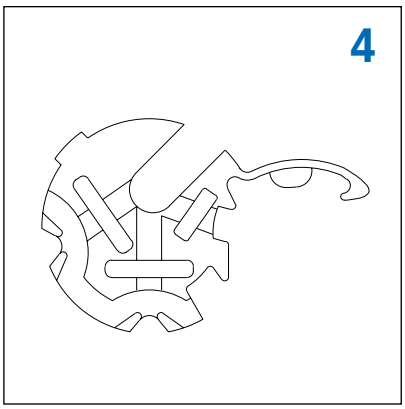
Push the cable through the boot assembly and strip the cable back 35 to 40 mm. Twist the shield wire.



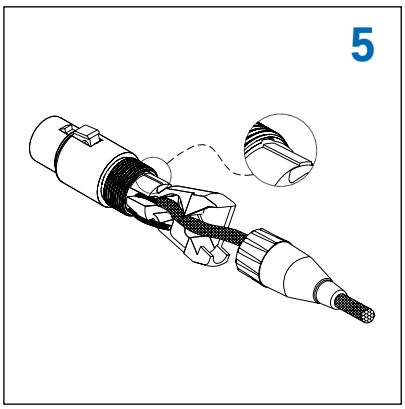
Fit the cable into the 'Jaws' cable clamp ensuring that the cable is pushed up to the neck of the clamp within 3mm.



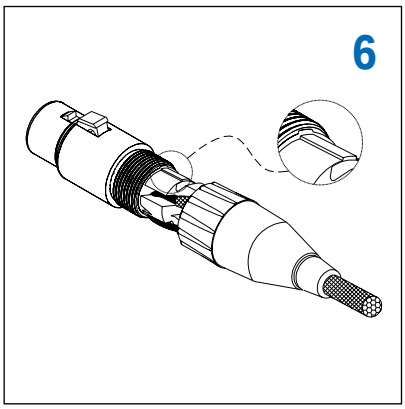
Pull back the conductors into their individual wire guidetracks. Note: Two spring fingers in the clamp will hold the conductors in position during subsequent operations. The ends of the two insulated wires must be on or past the minimum wire length mark.



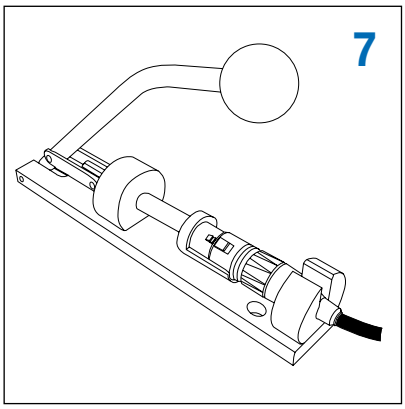
For ground protection the twisted shield wire is clipped in place with the ground protect flap.



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

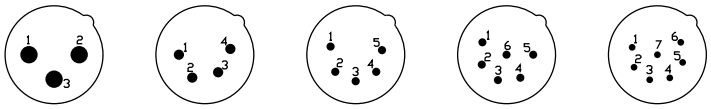


Close the cable clamp slightly and push the boot over the clamp ensuring the wires fit inside the boot.



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

STANDARD DATA AC CABLE CONNECTORS

		VALUE				
GENERAL 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				
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
	Typicial 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) - Dependant 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				

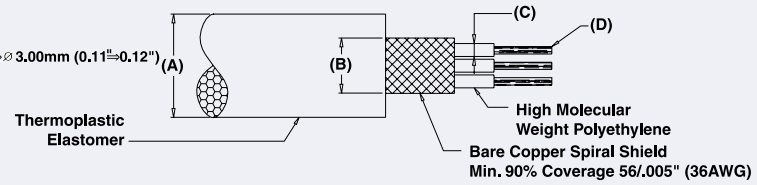
[1] Not suitable for domestic applications above 50V

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

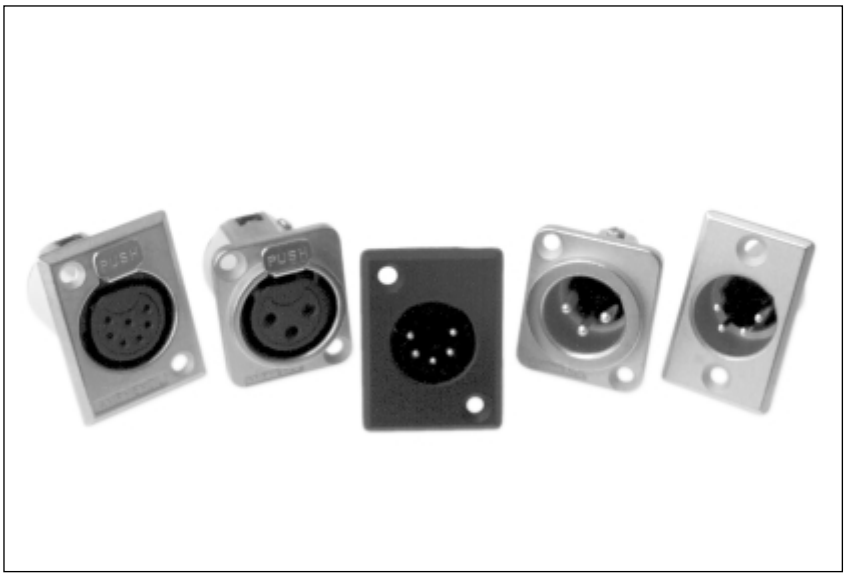
STANDARD DATA AC CABLE CONNECTORS

		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 60
	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	Thermoplastic Polyurethane
	Male Contact	
	Stamped - IDC / Plating	Phosphor Bronze / Silver or Gold (Optional)
	Stamped - Solder / Plating	Phosphor Bronze / Silver or Gold (Optional)
	Machined - Solder / Plating	Brass / Silver or Gold (Optional)
	Female Contact	
	Stamped - IDC / Plating	Phosphor Bronze / Tin or Gold (Optional)
	Stamped - Solder / Plating	Phosphor Bronze / Tin or Gold (Optional)
	Machined - Solder / Plating	Brass / Silver or Gold (Optional) - 4 socket is tin plated
IDC RECOMMENDED CABLE DIMENSIONS		

A - Cable O.D.: Max. ⌀ 5.85mm (0.23").
B - Bare Copper Spiral Shield OD ⌀ 2.75⇒⌀ 3.00mm (0.11"⇒0.12")
C - OD⌀1.30⇒⌀1.50mm (0.05"⇒0.06")
D - 16/.005" (24 AWG stranded wire)



Rev 1 - 08/2003



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

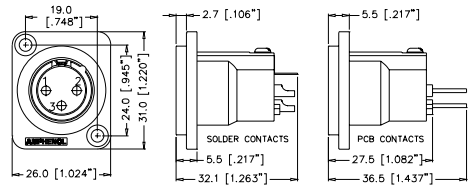
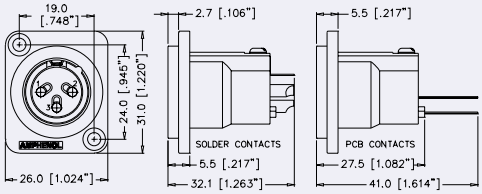
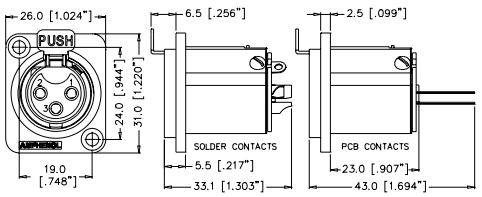
METAL D TYPE FLANGE

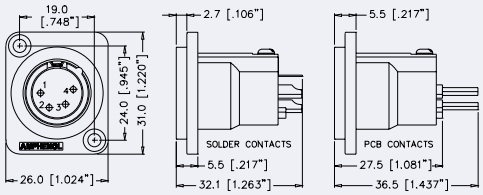
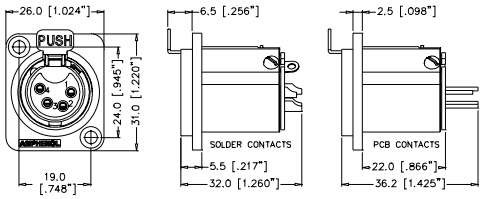
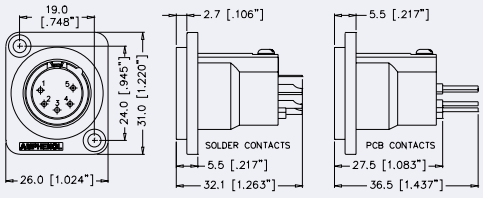
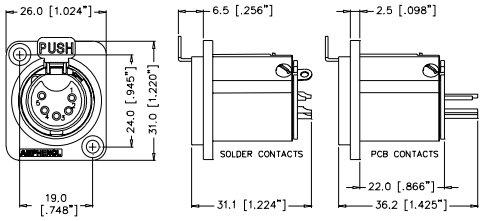


Features:
- Zinc Diecast Shell.
- D size housing can be front or rear mounted using the same panel cutout.
- Solder Bucket connections.
- Vertical PCB mounting (not available in 4 contact female).
- Precision machined or Stamped contacts (3 pin only).
- Leading first mate last break socket contact.
-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

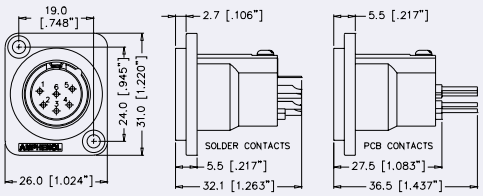
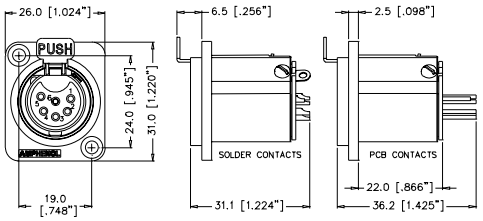
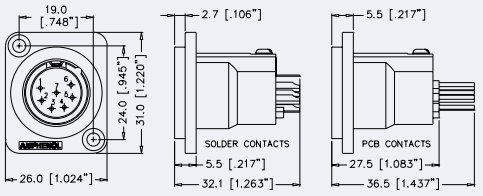
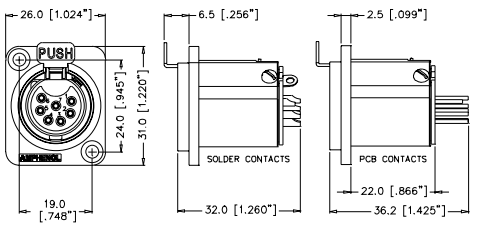
Options: Stamped contacts (3 contact only), Gold plated contacts, Vertical PCB contacts, Black finish, Non-Latching(Female only),Bulk Pack.

Part Number Breakdown: Page 24
Specifications: Page 25
PCB Footprints: Page 26
Panel Cutouts: Page 26

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

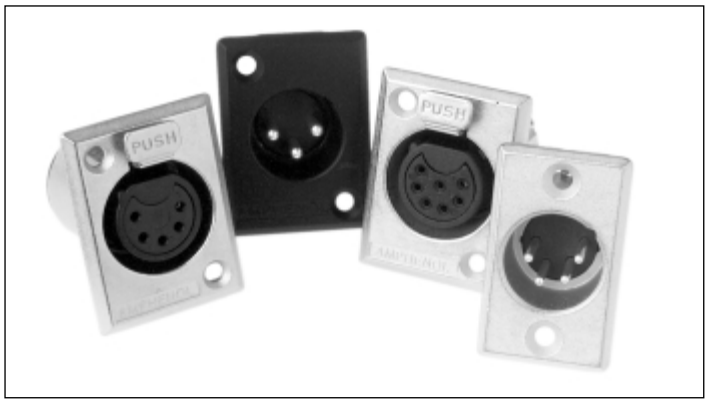
PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 4 pole male, D Flange, Machined contacts, Nickel Finish	Standard	AC4MDZ
			Gold Plated Contacts	AC4MDZ-AU
			Vertical PCB	AC4MDZV
			Bulk Pack	AC4MDZ BULK
		XLR 4 pole male, D Flange, Machined contacts, Black Finish	Standard	AC4MDZB
			Gold Plated Contacts	AC4MDZB-AU
			Vertical PCB	AC4MDZVB
			Bulk Pack	AC4MDZB BULK
		XLR 4 pole female, D Flange, Stamped contacts, Nickel Finish	Standard	AC4FDZ
			Gold Plated Contacts	AC4FDZ-AU
			Vertical PCB	AC4FDZV
			Bulk Pack	AC4FDZ BULK
		XLR 4 pole female, D Flange, Stamped 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

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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



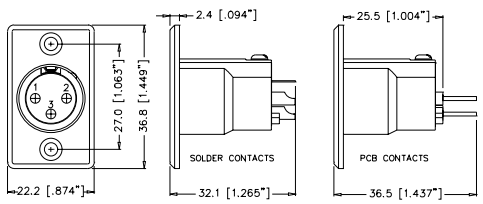
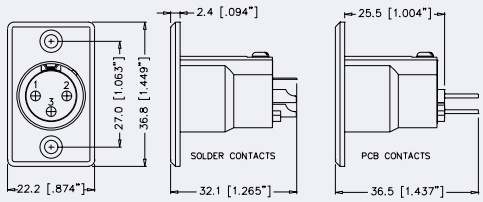
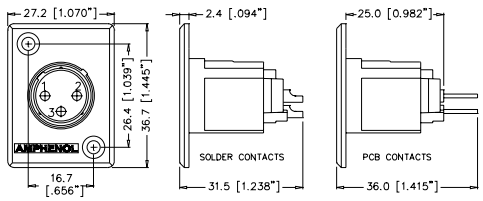
Features:
- Zinc Diecast shell.
- The P size housing is the original wide flange front mounting XLR connector. PN is the original narrow, front mounting male connector.
- Solder Bucket connections.
- Vertical PCB mounting.
- Precision Machined or Stamped contacts (3 pin only).
- Leading first mate last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

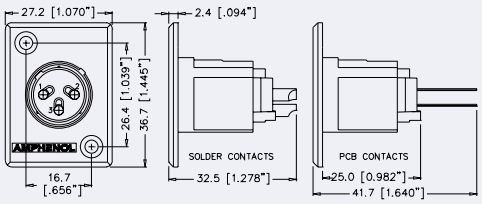
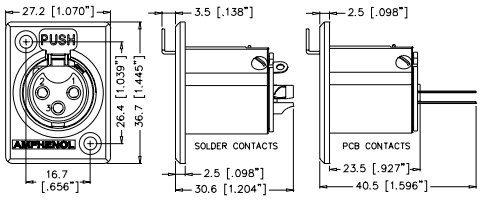
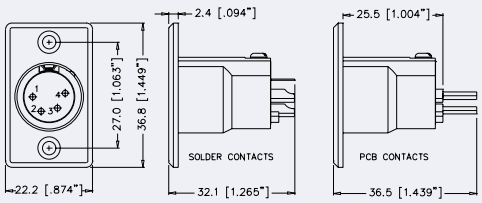
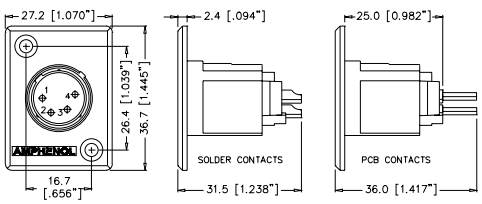
Part Number Breakdown: Page 24

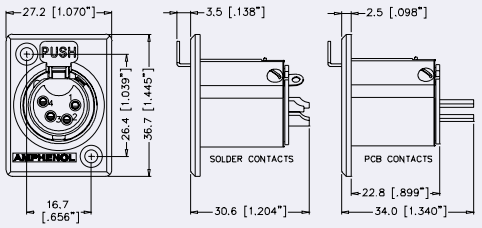
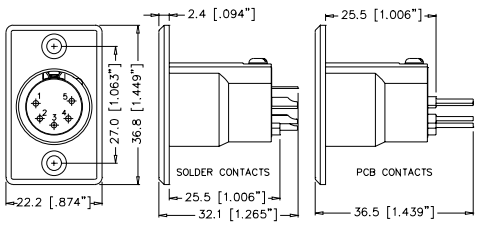
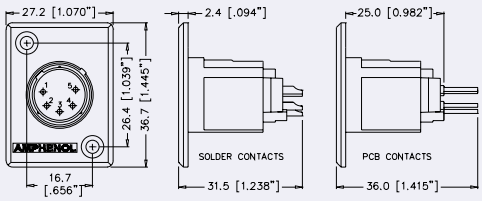
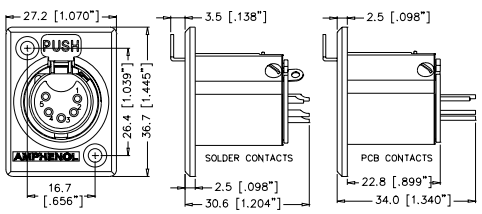
Specifications: Page 25 **PCB Footprints: Page 26**

Panel Cutouts: Page 26

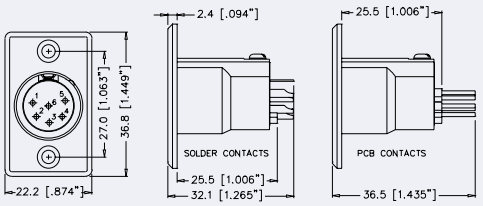
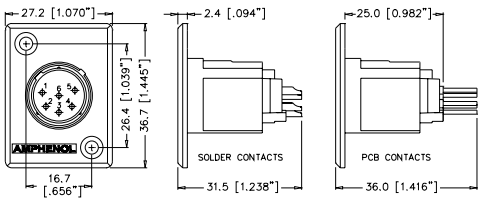
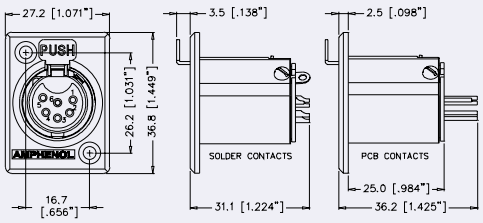
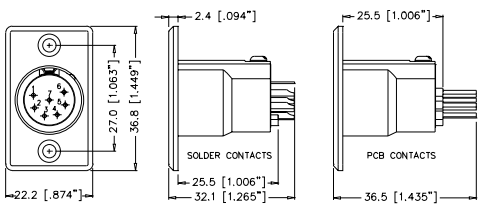
PRODUCT - FIGURE	DRAWING (Dimensions in mm (inches))	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole male, Narrow flange, Machined contacts, Nickel Finish	Standard	AC3MMPNZ
			Gold Plated Contacts	AC3MMPNZ-AU
			Vertical PCB	AC3MMPNZV
			Bulk Pack	AC3MMPNZ BULK
		XLR 3 pole male, Narrow flange, Machined 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

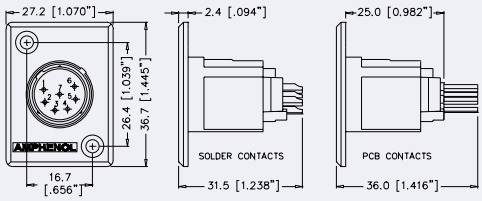
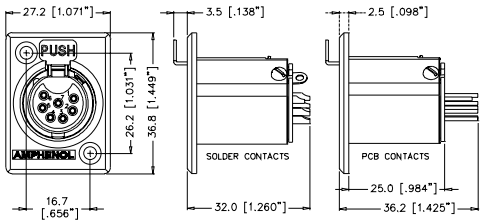
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PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole male, Wide flange, Stamped contacts, Nickel Finish	Standard	AC3MP
			Gold Plated Contacts	AC3MP-AU
			Vertical PCB	AC3MPV
			Bulk Pack	AC3MP BULK
		XLR 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

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 4 pole female, Wide flange, Stamped contacts, Nickel Finish	Standard	AC4FPZ
			Gold Plated Contacts	AC4FPZ- AU
			Vertical PCB	AC4FPZV
			Bulk Pack	AC4FPZ BULK
		XLR 4 pole female, Wide flange, Stamped 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

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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

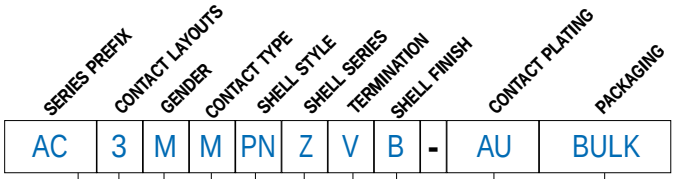
PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 7 pole male, Wide flange, Gold Plated Machined contacts, Nickel Finish	Standard	AC7MP
			Vertical PCB	AC7MPV
			Bulk Pack	AC7MP BULK
		XLR 7 pole male, Wide flange, Gold Plated Machined contacts, Black Finish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

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PART NUMBER BREAKDOWN

METAL TYPE FLANGE

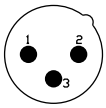
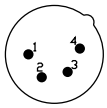
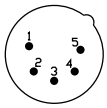
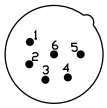
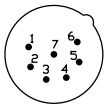
E. G . **AC3MMPNZVB-AU BULK**
AC (Series Prefix), **3** contacts, **M**ale, **M**achined Contacts, **PN** (Narrow Flange), **Z** (Metal Chassis Series), **V**ertical Printed Circuit Board, **B**lack Polyester Finish, - **AU** (Gold Plated Contacts), **Bulk** Packaged.



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	Blank	=	Stamped Contacts
	M	=	Machined Contacts (Applicable 3 male pin contacts only)
	NOTE: 4 - 7 contact connectors have machined contacts as standard. They are not available in stamped contacts.		
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	Blank	=	Nickel Plated Finish
	B	=	Black Polyester Finish
CONTACT PLATING	Blank	=	Standard Plating (Silver or Tin - Refer to Standard Data.) NOTE: 7 Contact is gold plated as standard.
	AU	=	Gold Plated
PACKAGING	Blank	=	Individual Bags
	BULK	=	Bulk Packed

Note: 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				
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
	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 - 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) - 4 socket is tin plated				

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

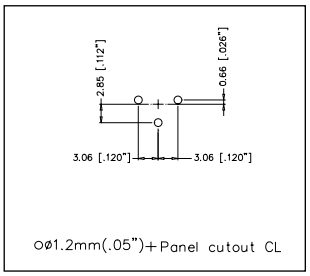
[2)] Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.

Amphenol

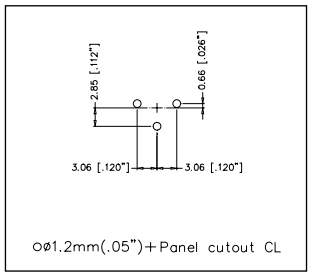
AC SERIES CHASSIS METAL "Z"

PCB FOOTPRINTS STRAIGHT (V)

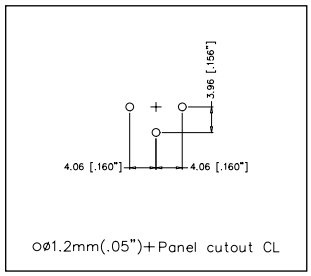
CONNECTOR SIDE OF PCB



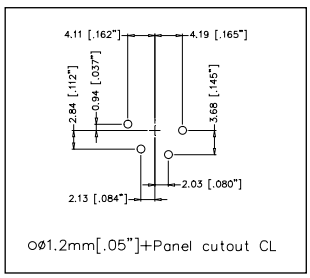
AC3F*ZV



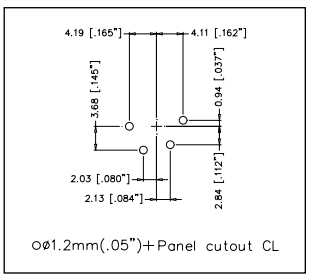
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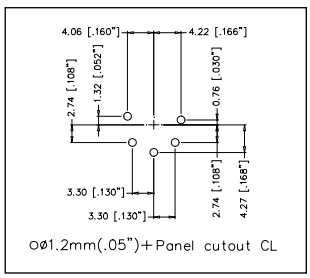
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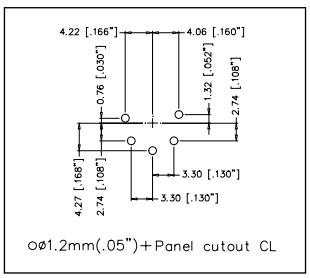
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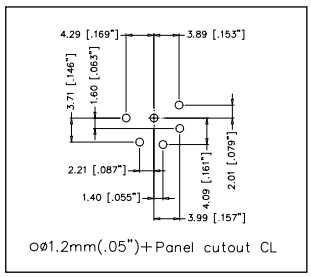
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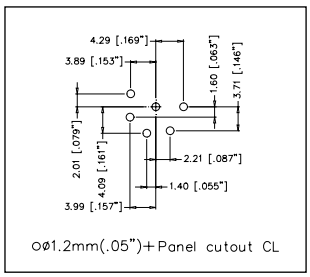
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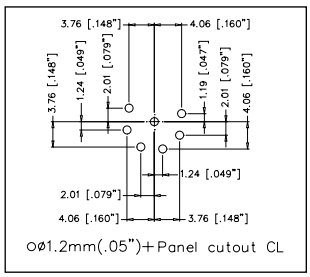
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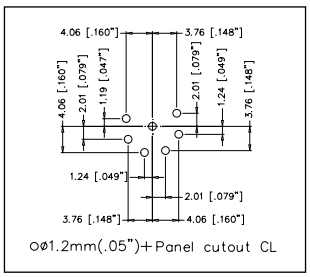
AC6AF*ZV



AC6AM*ZV



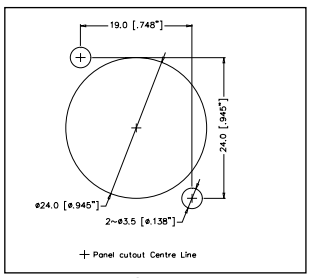
AC7F*ZV



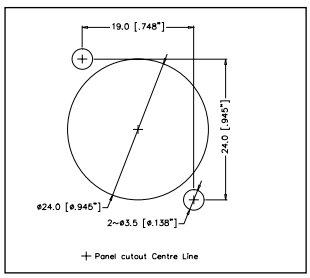
AC7M*ZV

PANEL CUTOUT DIMENSIONS

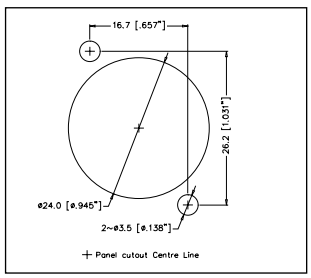
FRONT VIEW



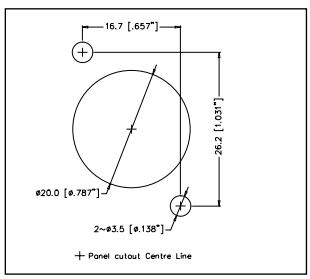
AC*FDZ



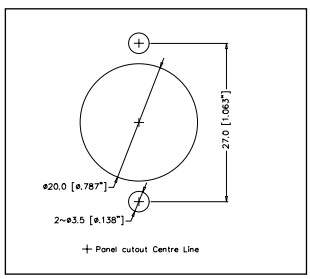
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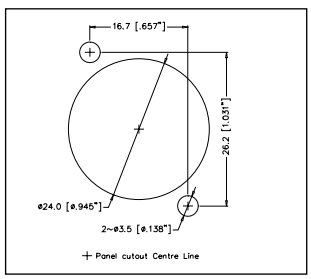
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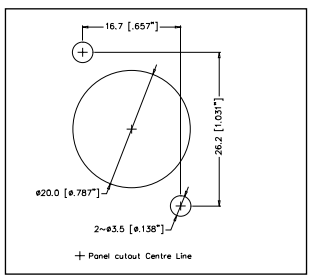
AC*MP



AC*MPNZ



AC-PDN-31-XXX



AC-PDN-34-XXX



AC SERIES - A TYPE THERMOPLASTIC XLR PCB CHASSIS CONNECTORS

The AC series, A 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
- Available in 3 contact arrangement only.
- Compatible with all other XLR brands.

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

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.

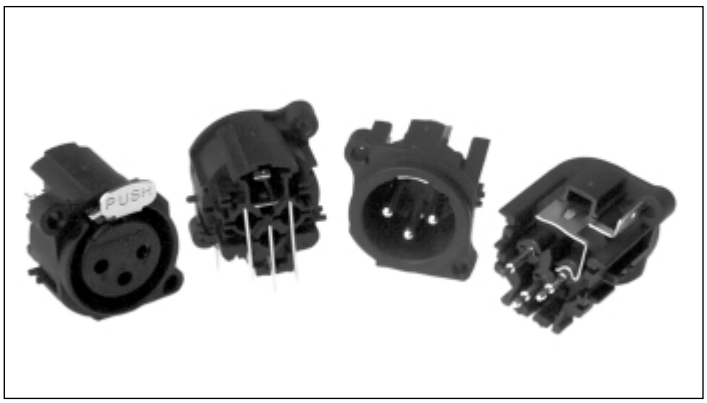
5) Use variations column to determine your choice.

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



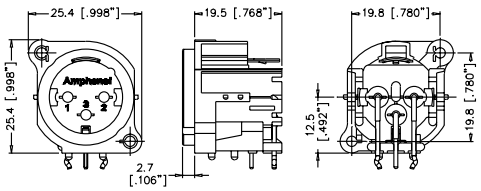
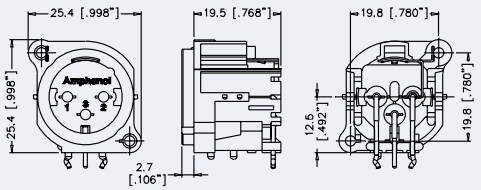
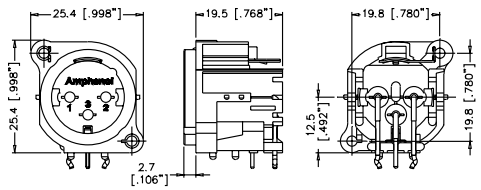
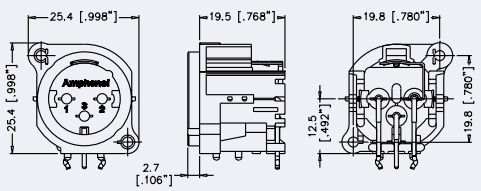
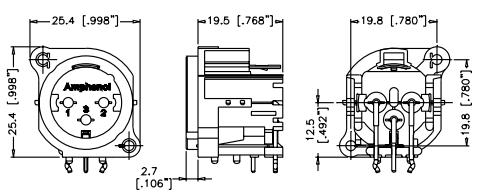
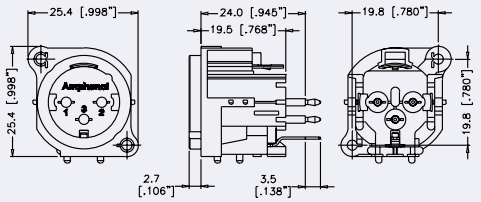
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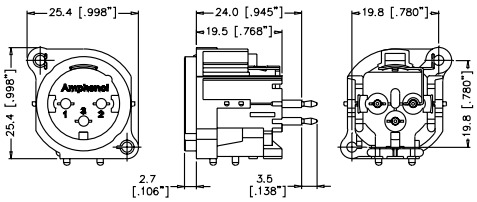
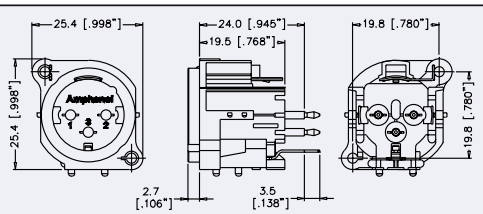
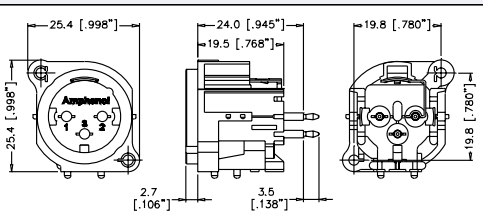
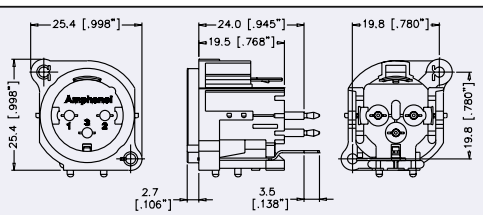
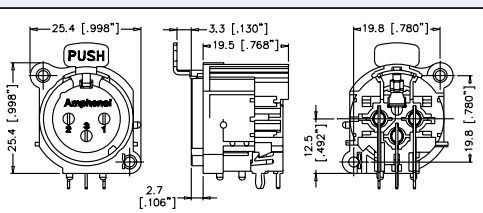
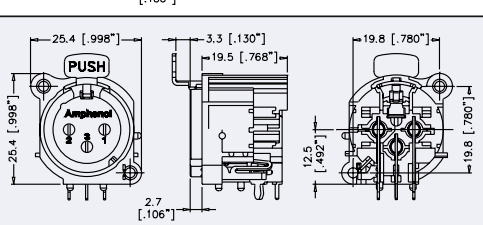
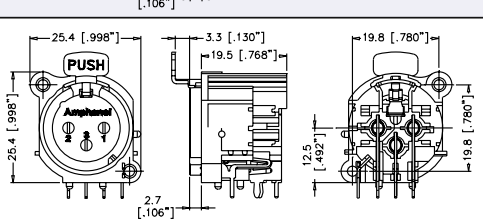
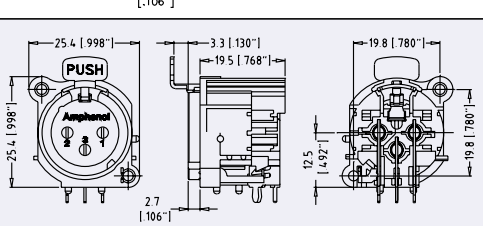
- Thermoplastic Shell
- Industry standard PCB footprints.
- Vertical or Horizontal PCB mounting.
- Precision machined pin contacts.
- Gold plated contacts.
- Leading first mate last break socket contact.
- Bulk packed in trays, 100 to a box as standard.
- Positive latch lock system.

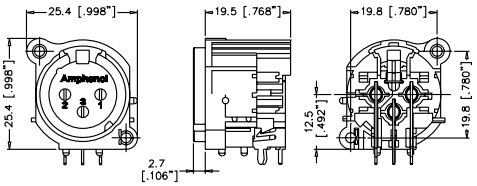
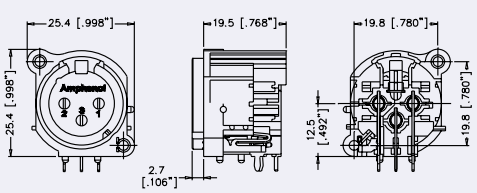
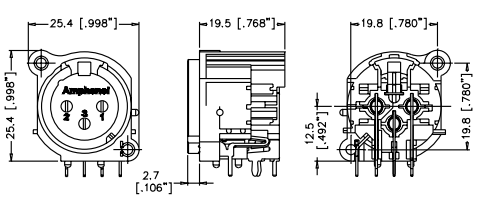
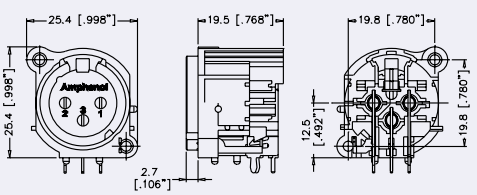
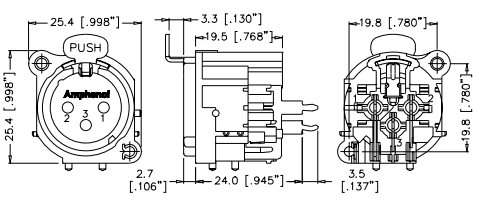
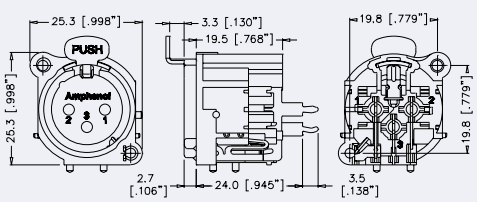
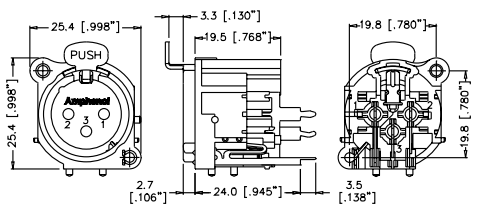
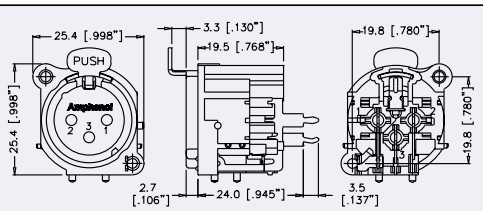
Options: Silver plated contacts, Vertical or Horizontal PCB, Various grounding methods, Latching or Non-Latching.

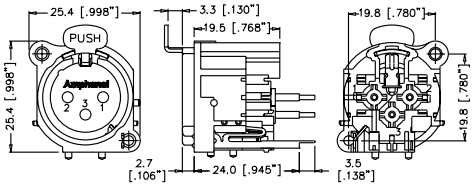
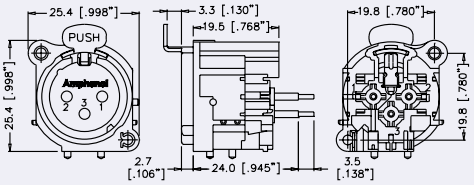
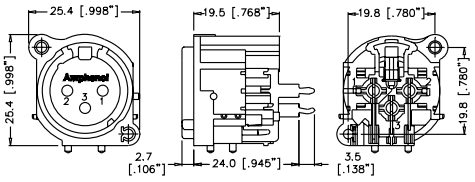
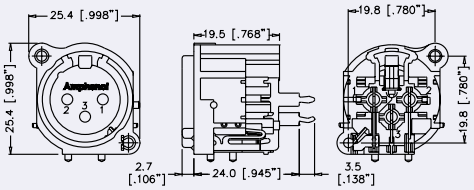
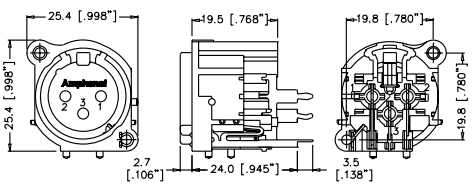
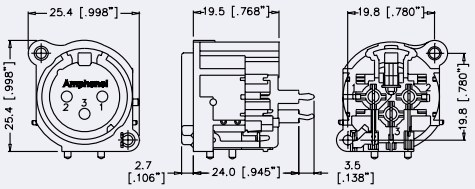
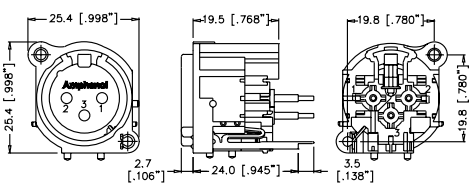
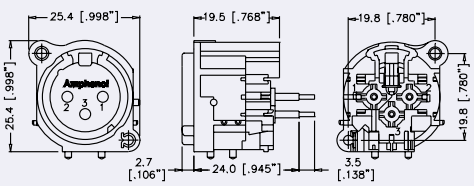
Part Number Breakdown:Page 32-33 **Specifications: Page 34**

PCB Footprints: Page 35 **Panel Cutouts: Page 36**

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, Vertical PCB, Gold Plated Contacts, Bulk Pack	No Ground Link	AC3MAV-AU-B

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

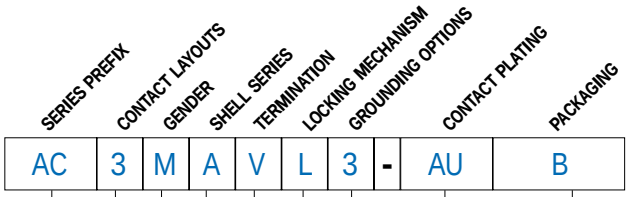
PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	GROUND LINK VARIATIONS	PART NUMBER
		XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack	No Ground Link	AC3FAHL-AU-B
		XLR 3 pole female, Horizontal PCB, Non-Latching Type Gold Plated Contacts, Bulk Pack	Pin 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
		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

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, Machined Contact Mount	Mating connector shell to Chassis - Pin 1 sep. Ground.	AC3FAV4-AU-B
		XLR 3 pole female, Vertical PCB, Latching Type, Gold Plated Contacts, Bulk Pack, Machined Contact Mount	No Ground Link	AC3FAV5-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
		XLR 3 pole female, Vertical PCB, Non-Latching type, Gold Plated Contacts, Bulk Pack, Machined Contact Mount	Mating connector shell to Chassis - Pin 1 sep. Ground.	AC3FAVL4-AU-B
		XLR 3 pole female, Vertical PCB, Non-Latching type, Gold Plated Contacts, Bulk Pack, Machined Contact Mount	No Ground Link	AC3FAVL5-AU-B

Amphenol

PART NUMBER BREAKDOWN

AC SERIES A TYPE MALE

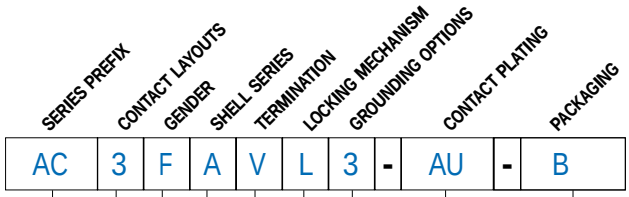


E. G . **AC3MAVL3-AU B**
AC (series prefix),**3** contacts, **M**ale, **A** Type, **V**ertical Printed Circuit Board, **L**atchless, **3** (Mating Shell to Pin 1 Grounding), - **AU** (Gold Plated Contacts), **B**ulk Packaged.

SERIES PREFIX	AC	=	Series Prefix
CONTACT LAYOUT	3	=	3 Contacts only
GENDER	M	=	Male Pin Contacts
SHELL SERIES	A	=	A Type
TERMINATION	H	=	Horizontal Printed Circuit Board
	V	=	Vertical Printed Circuit Board
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 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 TYPE FEMALE



E. G . **AC3FAVL3-AU B**
AC (series prefix),**3** contacts, **F**emale, **A** Type, **V**ertical Printed Circuit Board,Latchless, **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
TERMINATION	H	=	Horizontal Printed Circuit Board
	V	=	Vertical Printed Circuit Board
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 sep. Ground.
	3	=	Pin 1 to Chassis
	4	=	Mating Shell to Chassis & Pin 1 Seperate Ground / Machined Contacts
	5	=	No Ground Link / Machined Contacts
CONTACT PLATING	AU	=	Gold Plated Contacts
	AG	=	Silver Plated Contacts (Non-Standard)
PACKAGING	B	=	Bulk Packed

STANDARD DATA AC SERIES A TYPE CHASSIS

		VALUE
GENERAL CHARACTERISTICS	Number of contacts	3
	Contact Arrangements (Front view of pin insert)	
	Termination	Printed Circuit Board (PCB)
	Flammability rating of plastics	UL94V-0
ELECTRICAL CHARACTERISTICS	Service Voltage RMS	133V [1)]
	Test Voltage AC RMS	1500V
	Current carrying capacity	6A
	Typical Contact Resistance	≤ 5mΩ
	Insulation Resistance (initial)	≥ 2GΩ
	Insulation Resistance (after damp heat test)	≥ 2GΩ
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 Hole torque max.	1.5Nm
	Mechanical Operations	1500 mating cycles
	Fastening	Self-Tapping PT screw with thread 2.9 x 1.06 and of Tri-rondular configuration
MATERIALS	Connector Shell Shell Finish	PA6.6 + 25% glass fibre reinforced, ULV94V-0 Black
	Insulators	PA6.6 + 25% glass fibre reinforced, ULV94V-0
	Male Contact Material Plating	 Brass 0.0762µm (3µ") gold over 0.0762µm (30µ") nickel
	Female Contact Material Plating	 Bronze 0.0762µm (3µ") gold over 0.0762µm (30µ") nickel
	Latch lock and Spring	Spring Steel
	Ground element	Spring Steel

Rev 1 - 08/2003

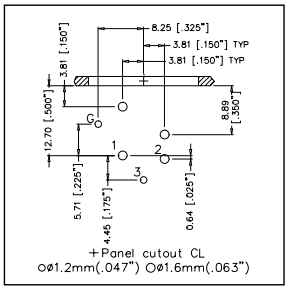
[1)] Not suitable for domestic applications above 50V

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

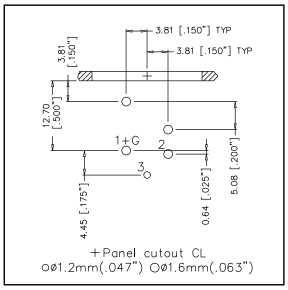
AC SERIES A TYPE CHASSIS

PCB FOOTPRINTS STRAIGHT (V) - CONNECTOR SIDE OF PCB

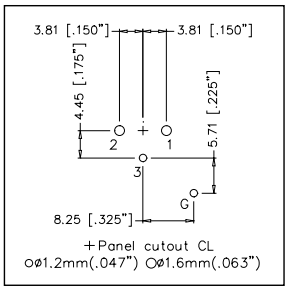
AC3FAH
AC3FAH2



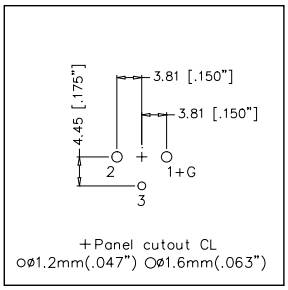
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AC3FAH3



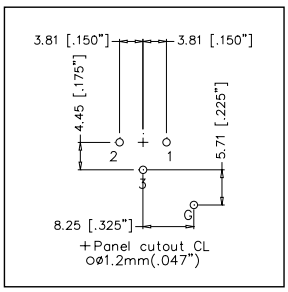
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AC3FAV2



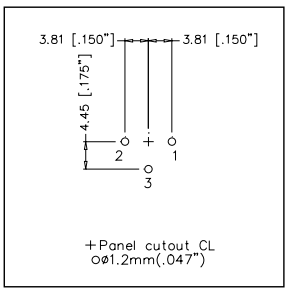
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AC3FAV3



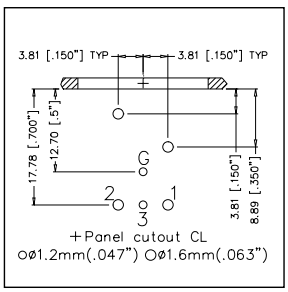
AC3FAV4



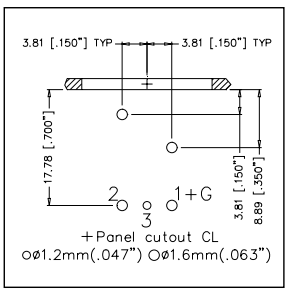
AC3FAV5



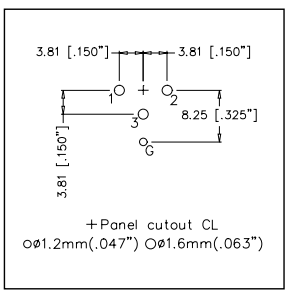
AC3MAH
AC3MAH2
AC3MAH4



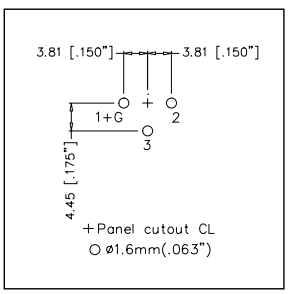
AC3MAH1
AC3MAH3



AC3MAV
AC3MAV2
AC3MAV4



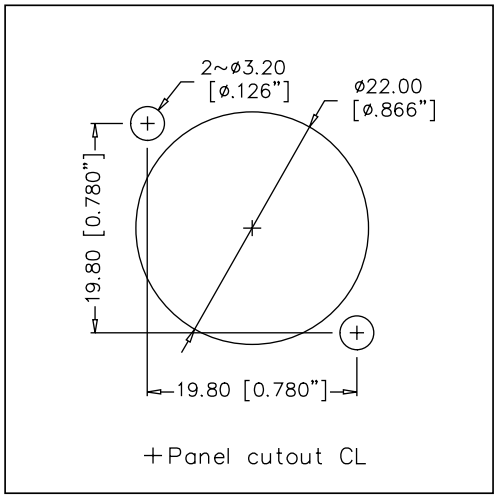
AC3MAV1
AC3MAV3



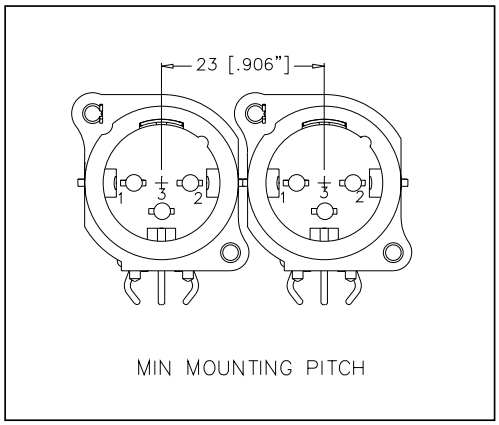
AC SERIES A TYPE CHASSIS

PANEL CUTOUT DIMENSIONS - FRONT VIEW

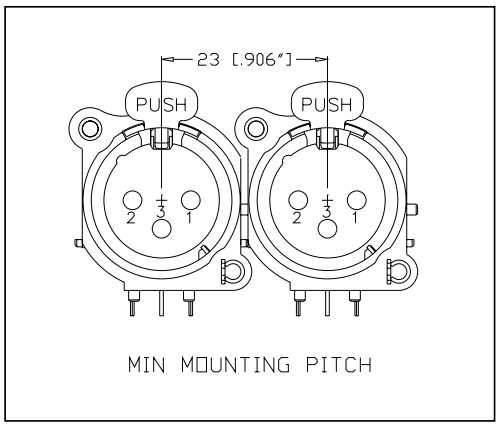
A TYPE



A TYPE MALE MOUNTING PITCH



A TYPE FEMALE MOUNTING PITCH





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. Available in the small "D" or larger "P" housing or the dual versions featuring two connectors within a single housing.
A positive latch lock system secures the mating cable connector. Manufactured to comply with IEC 268-12 and AES 14-1992 standards. CSA File Number 68598

Features

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

Options

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

Ordering Codes

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

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.

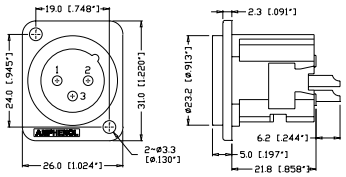
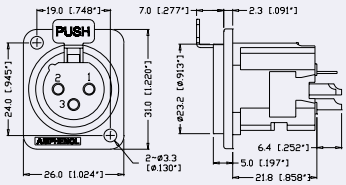
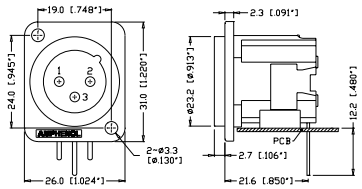
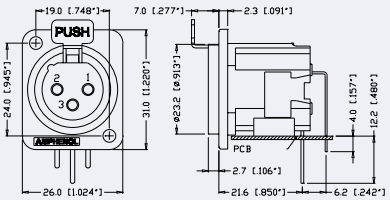
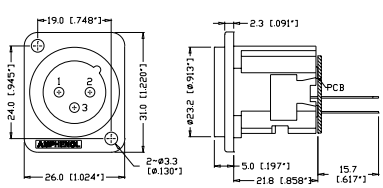
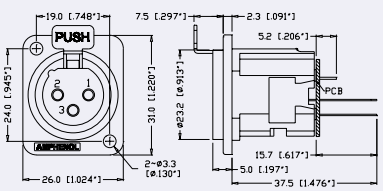
Amphenol



Features:
- 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.

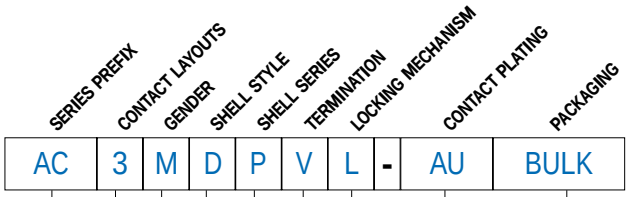
Options: Solder Buckets, Vertical or Horizontal PCB, Bulk Pack, Latching or Non-latching, Gold Plated Contacts.

Part Number Breakdown: Page 39 **Specifications: Page 48**
PCB Footprints: Page 49 **Panel Cutouts: Page 49**
NOTE: Refer to page 59, AC SERIES ACCESSORIES for mounting clips.

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 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

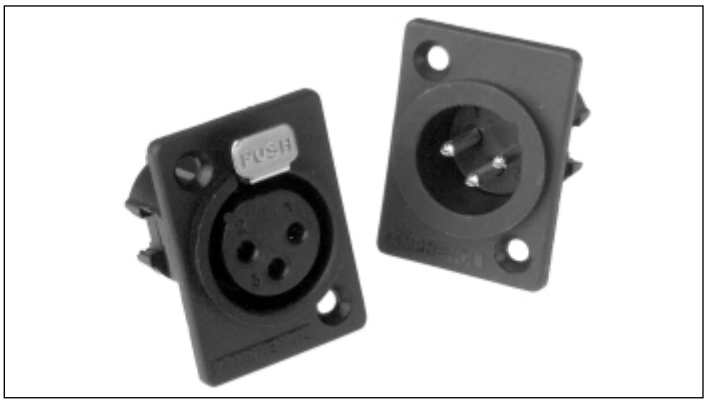
THERMOPLASTIC D TYPE FLANGE



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
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

Amphenol

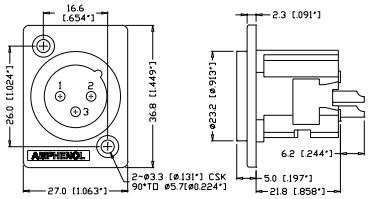
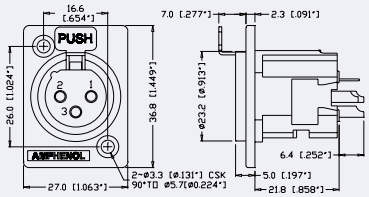
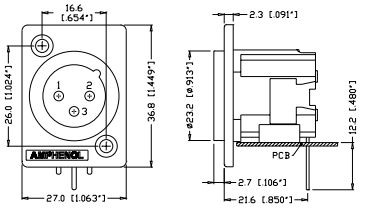
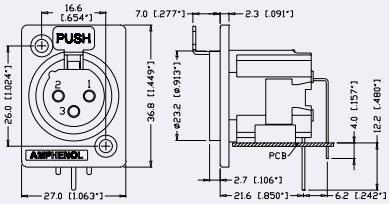
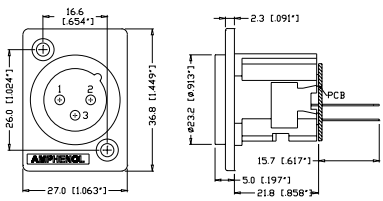
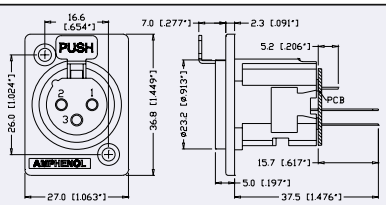


Features:

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

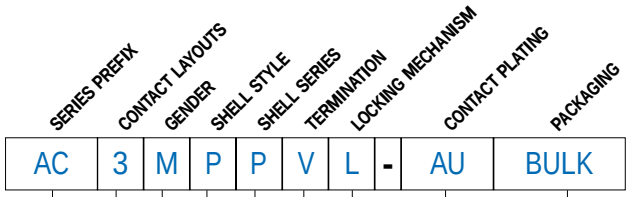
Options: Solder Buckets, Vertical or Horizontal PCB, Bulk Pack, Latching or Non-latching, Gold Plated Contacts.

Part Number Breakdown: Page 41 **Specifications: Page 48**
PCB Footprints: Page 49 **Panel Cutouts: Page 49**

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole male, Wide Flange, Thermoplastic shell, Solder Buckets	Standard	AC3MPP
			Bulk Pack	AC3MPP BULK
			Non-Latching	AC3MPPL
			Non-Latching Bulk	AC3MPPL BULK
		XLR 3 pole female, Wide Flange, Thermoplastic shell, Solder Buckets	Standard	AC3FPP
			Bulk Pack	AC3FPP BULK
			Non-Latching	AC3FPPL
			Non-Latching Bulk	AC3FPPL BULK
		XLR 3 pole male, Wide Flange, Thermoplastic shell, Horizontal PCB mount	Standard	AC3MPPH
			Bulk Pack	AC3MPPH BULK
			Non-Latching	AC3MPPHL
			Non-Latching Bulk	AC3MPPHL BULK
		XLR 3 pole female, Wide Flange, Thermoplastic shell, Horizontal PCB mount	Standard	AC3FPPH
			Bulk Pack	AC3FPPH BULK
			Non-Latching	AC3FPPHL
			Non-Latching Bulk	AC3FPPHL BULK
		XLR 3 pole male, Wide Flange, Thermoplastic shell, Vertical PCB mount	Standard	AC3MPPV
			Bulk Pack	AC3MPPV BULK
			Non-Latching	AC3MPPVL
			Non-Latching Bulk	AC3MPPVL BULK
		XLR 3 pole female, Wide Flange, Thermoplastic shell, Vertical PCB mount	Standard	AC3FPPV
			Bulk Pack	AC3FPPV BULK
			Non-Latching	AC3FPPVL
			Non-Latching Bulk	AC3FPPVL BULK

PART NUMBER BREAKDOWN

THERMOPLASTIC P TYPE FLANGE



E. G . **AC3MPPVL-AU BULK**
AC (Series Prefix),**3** contacts, **M**ale, **P** (Large 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
SHELL STYLE	P	=	Large Shell with wide flange
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

Amphenol



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.

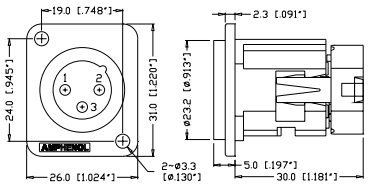
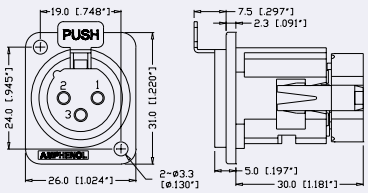
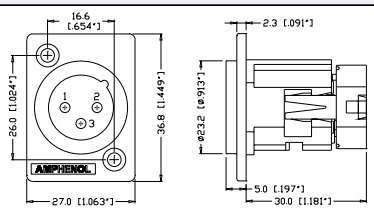
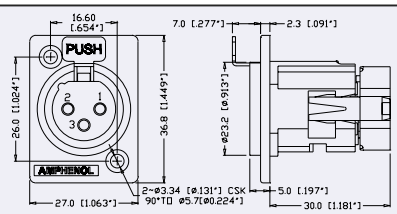
Recommended Cable Specifications: Page 48

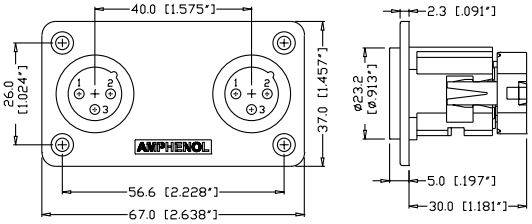
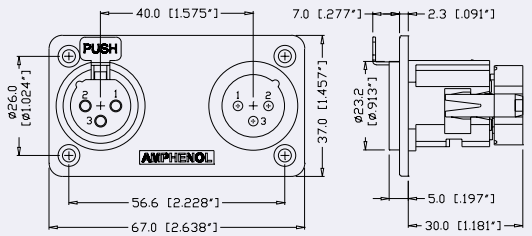
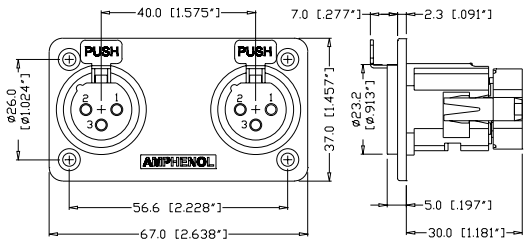
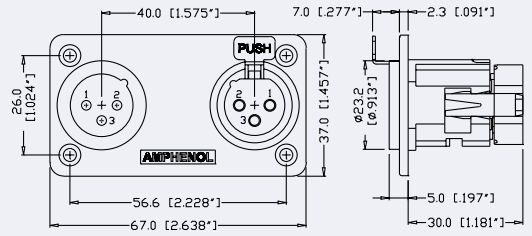
Features:

- 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 44 **Specifications: Page 48**
Assembly Instructions: Page 50 **Panel Cutouts: Page 49**

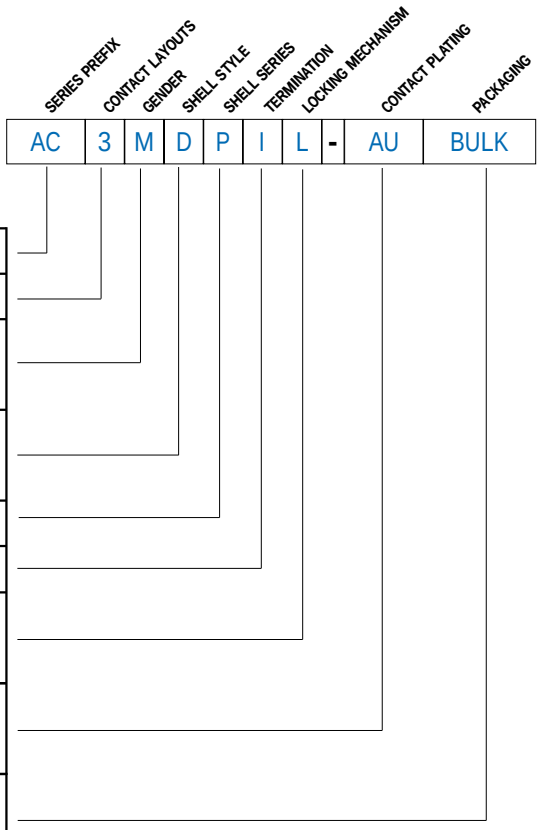
PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole male, D Flange, IDC contacts, Thermoplastic shell	Standard	AC3MDPI
			Bulk Pack	AC3MDPI BULK
			Non-Latching	AC3MDPIL
			Non-Latching Bulk	AC3MDPIL BULK
		XLR 3 pole female, D Flange, IDC contacts, Thermoplastic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

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole male + 3 pole male, Dual Flange, IDC contacts, Thermoplastic shell	Latching	AC3M3MPPI
			Non-Latching	AC3M3MPPIL
		XLR 3 pole female + 3 pole male, Dual Flange, IDC contacts, Thermoplastic shell	Latching	AC3F3MPPI
			Non-Latching	AC3F3MPPIL
		XLR 3 pole female + 3 pole female, Dual Flange, IDC contacts, Thermoplastic shell	Latching	AC3F3FPPI
			Non-Latching	AC3F3FPPIL
		XLR 3 pole male + 3 pole female, Dual Flange, IDC contacts, Thermoplastic shell	Latching	AC3M3FPPI
			Non-Latching	AC3M3FPPIL

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, **I**DC, **L**atchless,
- **AU** (Gold Plated Contacts), **Bulk** Packaged.

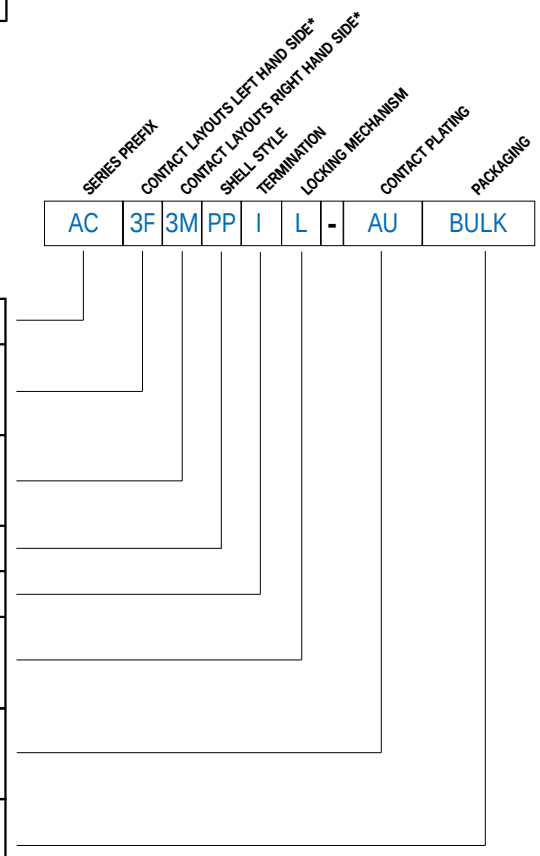


SERIES PREFIX	AC	=	Series Prefix
CONTACT LAYOUT	3	=	3 Contacts only
GENDER	F	=	Female Socket Contacts
	M	=	Male Pin Contacts
SHELL STYLE	D	=	D Flange
	P	=	P Flange
SHELL SERIES	P	=	Thermoplastic Chassis Series
TERMINATION	I	=	IDC Termination
LOCKING MECHANISM	Blank	=	Latching
	L	=	Latchless
CONTACT PLATING	Blank	=	Standard Plating (Silver or Tin - Refer to Standard Data.)
	AU	=	Gold Plated Contacts
PACKAGING	Blank	=	Individual Bags
	BULK	=	Bulk Packed

PART NUMBER BREAKDOWN

IDC DUAL THERMOPLASTIC CHASSIS TYPE

E. G . **AC3F3MPPIL-AU BULK**
AC (series prefix),**3F**emale, **3M**ale, **PP** (Dual Thermoplastic Chassis series), **I**DC,
Latchless,- **AU** (Gold Plated Contacts), **Bulk** Packaged.



SERIES PREFIX	AC	=	Series Prefix
CONTACT LAYOUT LEFT HAND SIDE [3]	3F	=	3 Female Socket Contacts only
	3M	=	3 Male Pin Contacts only
CONTACT LAYOUT RIGHT HAND SIDE [3]	3F	=	3 Female Socket Contacts
	3M	=	3 Male Pin Contacts
SHELL STYLE	PP	=	Dual 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

[3] Viewed from front of connector.

Amphenol

DUAL HOUSING THERMOPLASTIC TYPE

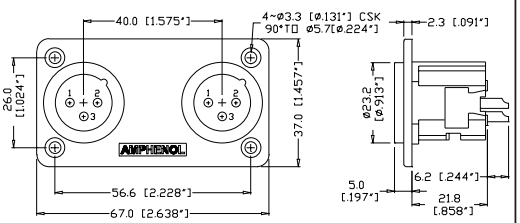
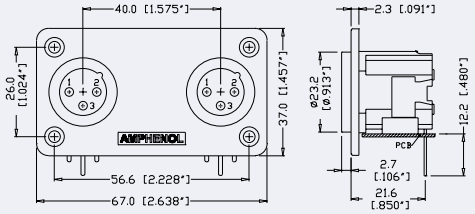
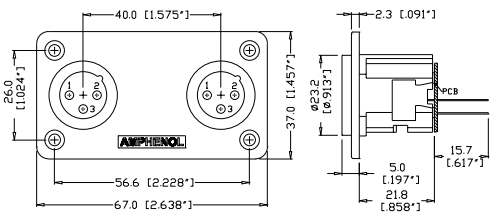
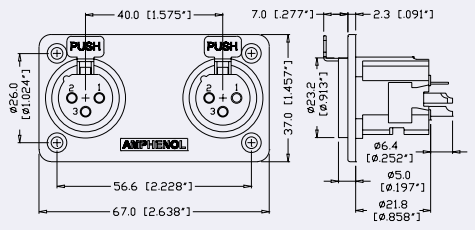
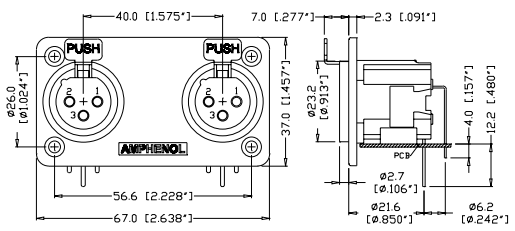


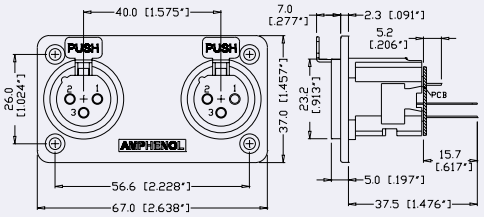
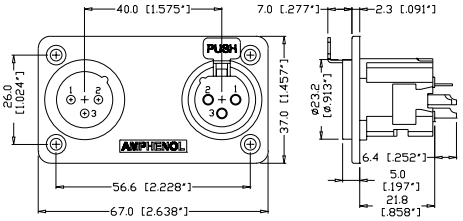
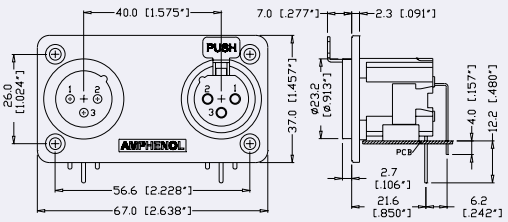
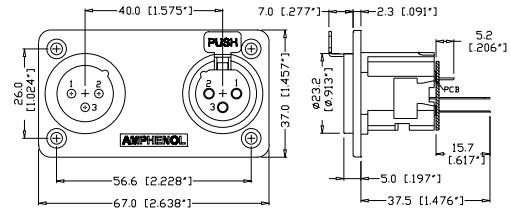
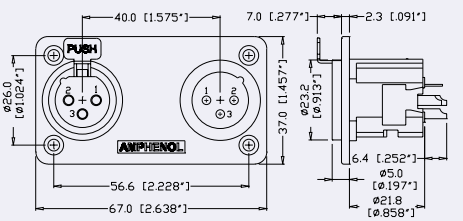
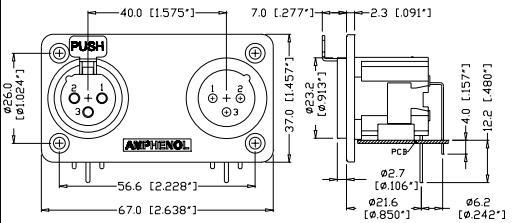
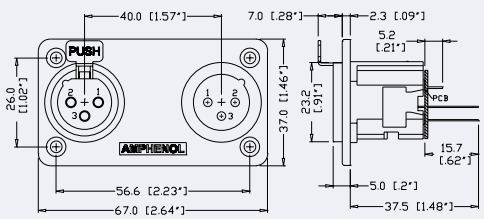
Features:

- Thermoplastic Shell.
- Dual Housing.
- 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 or IDC, Vertical or Horizontal PCB, Bulk Pack, Latching or Non-latching, Gold plated contacts.

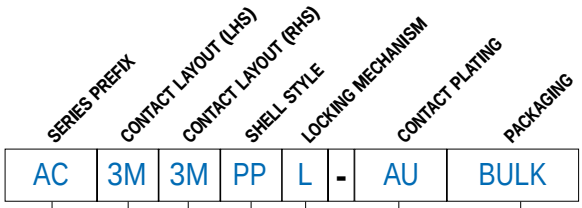
Part Number Breakdown: Page 47 **Specifications: Page 48**
PCB Footprints: Page 49 **Panel Cutouts: Page 49**

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole male + 3 pole male, Dual Flange, Solder contacts	Latching	AC3M3MPP
			Non-Latching	AC3M3MPPL
		XLR 3 pole male + 3 pole male, Dual Flange, Horizontal PCB mount	Latching	AC3M3MPPH
			Non-Latching	AC3M3MPPHL
		XLR 3 pole male + 3 pole male, Dual Flange, Vertical PCB mount	Latching	AC3M3MPPV
			Non-Latching	AC3M3MPPVL
		XLR 3 pole female + 3 pole female, Dual Flange, Solder contacts	Latching	AC3F3FPP
			Non-Latching	AC3F3FPPL
		XLR 3 pole female + 3 pole female, Dual Flange, Horizontal PCB mount	Latching	AC3F3FPPH
			Non-Latching	AC3F3FPPHL

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		XLR 3 pole female + 3 pole female, Dual Flange, Vertical PCB mount	Latching	AC3F3FPPV
			Non-Latching	AC3F3FPPVL
		XLR 3 pole male + 3 pole female, Dual Flange, Solder contacts	Standard	AC3M3FPP
			Non-Latching	AC3M3FPPL
		XLR 3 pole male + 3 pole female, Dual Flange, Horizontal PCB mount	Standard	AC3M3FPPH
			Non-Latching	AC3M3FPPHL
		XLR 3 pole male + 3 pole female, Dual Flange, Vertical PCB mount	Standard	AC3M3FPPV
			Non-Latching	AC3M3FPPVL
		XLR 3 pole female + 3 pole male, Dual Flange, Solder contacts	Standard	AC3F3MPP
			Non-Latching	AC3F3MPPL
		XLR 3 pole female + 3 pole male, Dual Flange, Horizontal PCB mount	Standard	AC3F3MPPH
			Non-Latching	AC3F3MPPHL
		XLR 3 pole female + 3 pole male, Dual Flange, Vertical PCB Mount	Standard	AC3F3MPPV
			Non-Latching	AC3F3MPPVL

PART NUMBER BREAKDOWN

DUAL THERMOPLASTIC TYPE

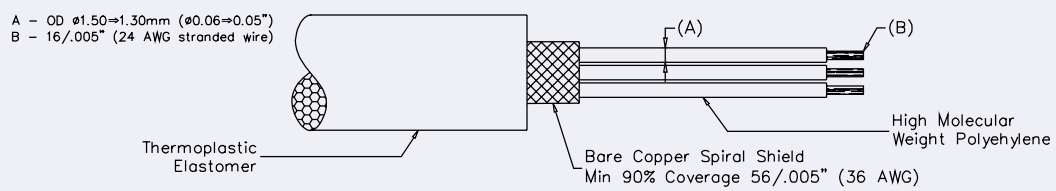


E. G . **AC3M3MPPL-AU BULK**
AC (Series Prefix), **3M**ale(LHS), **3M**ale(RHS), **PP** Dual Thermoplasic Chassis Series, **L**atchless, - **AU** (Gold Plated Contacts), **Bulk** Packaged.

SERIES PREFIX	AC	=	Series Prefix
CONTACT LAYOUT LEFT HAND SIDE [3]	3F	=	3 Female Socket Contacts only
	3M	=	3 Male Pin Contacts only
CONTACT LAYOUT RIGHT HAND SIDE [3]	3F	=	3 Female Socket Contacts
	3M	=	3 Male Pin Contacts
SHELL STYLE	PP	=	Dual Thermoplastic Chassis Series
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

[3] Viewed from front of connector.

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	24AWG
	Solder	12AWG
	Printed Circuit Board (PCB)	N/A
	Flammability	UL94V-0
ELECTRICAL CHARACTERISTICS	Service Voltage RMS	133V [1]
	Test Voltage AC RMS	1400V
	Current carrying capacity:	
	IDC	1A
	Solder	15A
	Printed Circuit Board (PCB)	15A
	Typicial Contact Resistance	≤ 3mΩ
	Insulation Resistance	≥ 1000MΩ
CLIMATIC CHARACTERISTICS	Protection Class	IP40
	Operating Temperature	-25˚C to +75˚C (-13°F to +167°F)
MECHANICAL CHARACTERISTICS	Weight [2]	14g - (0.030lb)
	Mechanical Operations	1000 mating cycles
MATERIALS	Connector Shell - Thermoplastic	Thermoplastic, ULV94V-0 Modified PPE Resin
	Shell Finish	Black, other colours available - contact factory
	Insulators	ULV94V-0 PBT Resin or Modified PPE Resin
	Male Contact	
	Stamped IDC-Material/Plating	Phosphor Bronze / Silver or Gold (optional)
	Stamped Solder and PCB-Material/Plating	Phosphor Bronze / Silver or Gold (optional)
	Female Contact	
	Stamped IDC-Material/Plating	Phosphor Bronze / Tin or Gold (optional)
	Stamped Solder and PCB-Material/Plating	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.

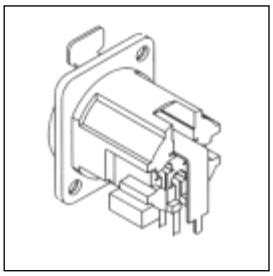
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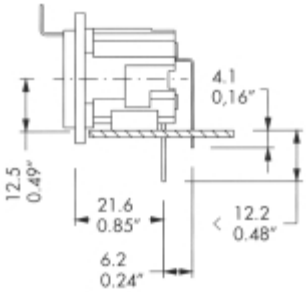
Amphenol

AC SERIES RECEPTACLES THERMOPLASTIC

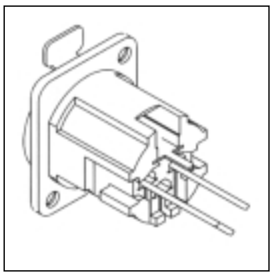
MOUNTING INFORMATION

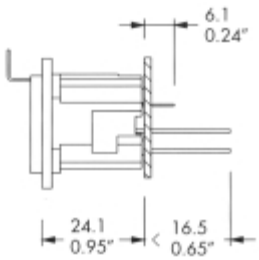
'D' SERIES
90° PCB (H)



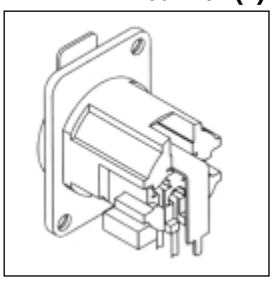


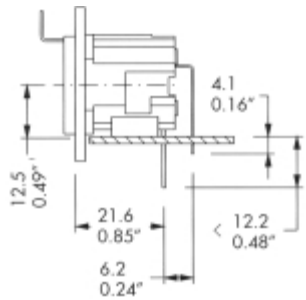
'D' SERIES
STRAIGHT PCB (V)



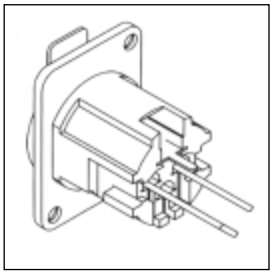


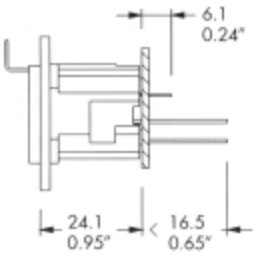
'P' SERIES
90° PCB (H)





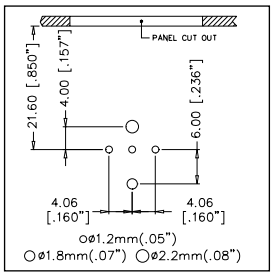
'P' SERIES
STRAIGHT PCB (V)



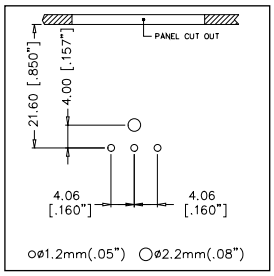


NOTE: For Dual Gang dimensions other than the mounting centres shown opposite please refer to the P Series above.

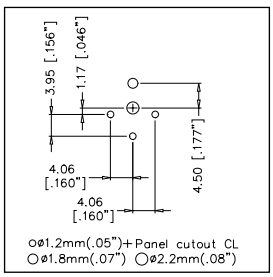
PCB FOOTPRINT
- CONNECTOR SIDE OF PCB



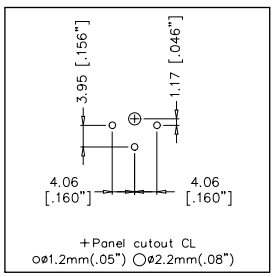
AC3FDPH / AC3FPPH



AC3MDPH / AC3MPPH

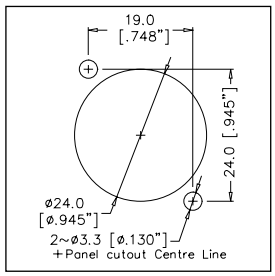


AC3FDPV / AC3FPPV

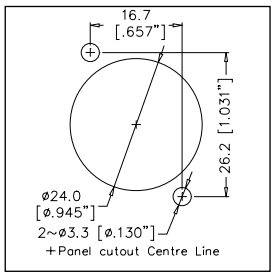


AC3MDPV / AC3MPPV

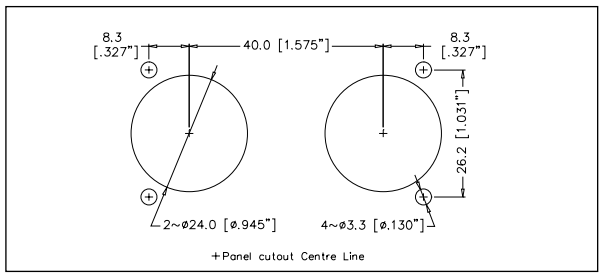
PANEL CUTOUT DIMENSIONS - FRONT VIEW



AC3FDP / AC3MDP

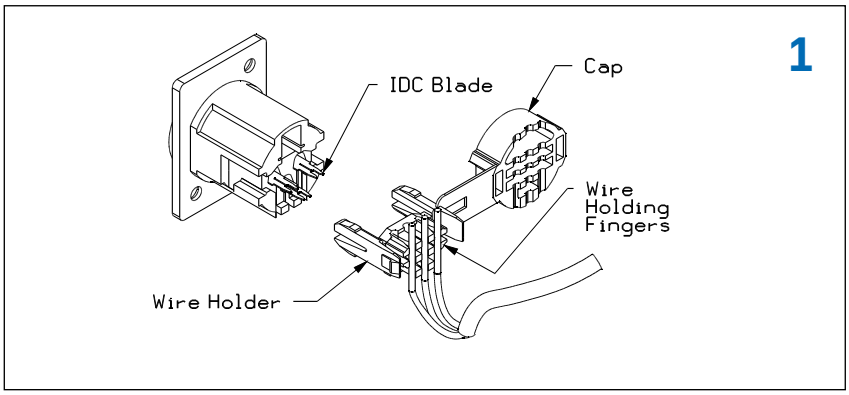


AC3FPP / AC3MPP

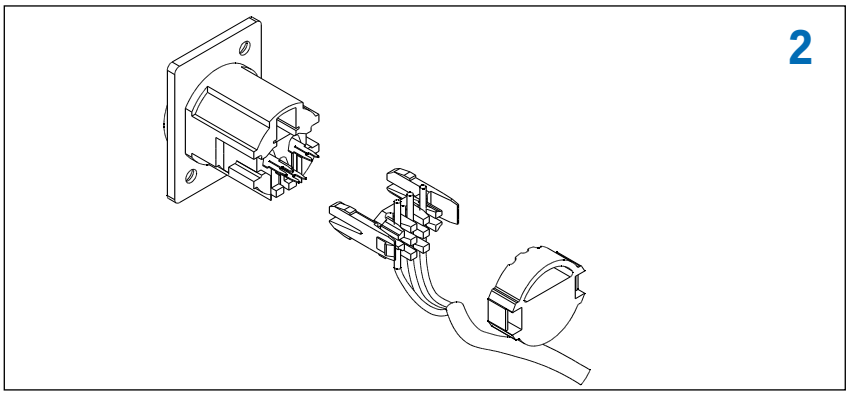


AC DUAL GANG

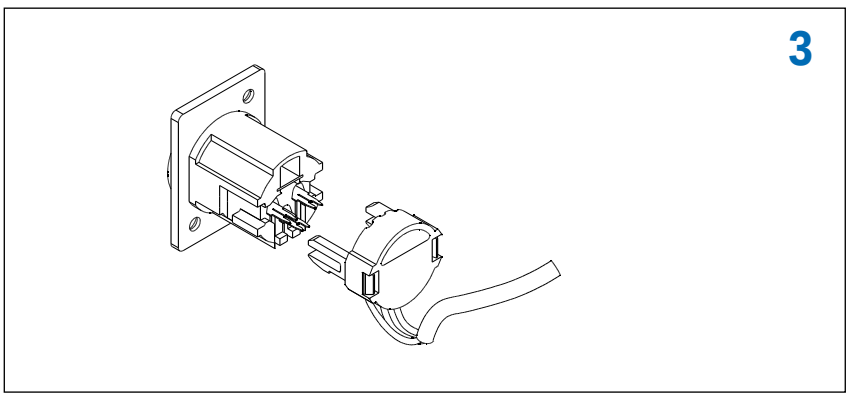
AC IDC SERIES CHASSIS ASSEMBLY INSTRUCTIONS



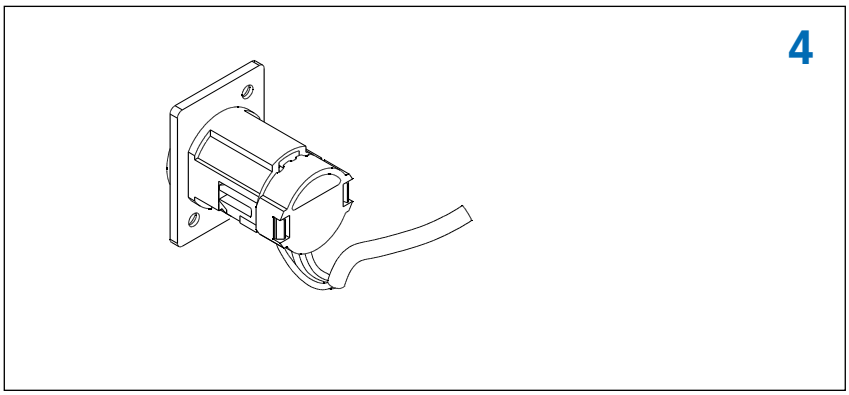
Lay the insulated conductors between the wire holding fingers. The fingers will retain the wire if it is inserted sufficiently.



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



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



Ensure wire holder snaps into the body.

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PDN TYPE



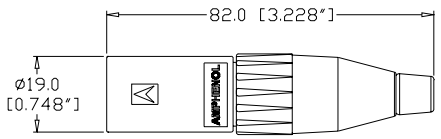
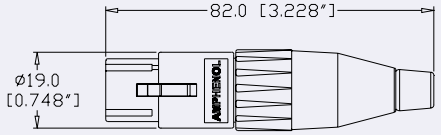
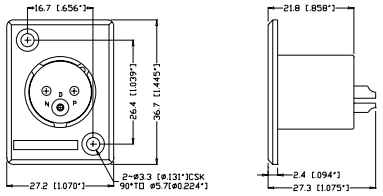
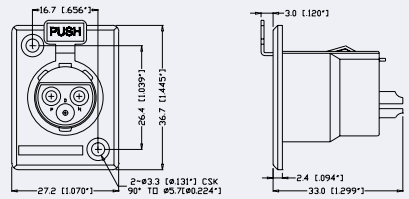
This range has been specially designed for amplifier to loudspeaker connections. The polarity configuration being POSITIVE, DRAIN, NEGATIVE. Visual color coding insert with matching boot/backshell (blue or white) can be used for either channel selection and/or cable identification purposes. AC-PDN 11 & 31 are recommended for live source applications (amplifiers). AC-PDN 12 & 34 are recommended for load applications (speakers).

Features:

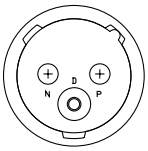
- Solder Bucket connections.
- Thermoplastic Shells
- Designed for 25 Amps RMS usage.
- "Jaws" Cable Retention System, Max. Cable O.D. 8mm (0.351")
- Precision machined contacts accept up to 4mm² (12AWG) conductors.
- Quick and easy assembly – by hand or portable termination tool (Part Number T2860.)

Options: White or Blue housing and insert colour. Std. Jaws cable clamp.

Specifications: Page 52 **Panel Cutouts: Page 26**

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		PDN male, Cable connector, Positive, Negative, Drain contacts, Thermoplastic shell, Large Jaws cable clamp	Blue housing	AC-PDN-12-BLU
			White housing	AC-PDN-12-WHT
		PDN female, Cable connector, Positive, Negative, Drain contacts, Thermoplastic shell, Large Jaws cable clamp	Blue housing	AC-PDN-11-BLU
			White housing	AC-PDN-11-WHT
		PDN male, Chassis mount, Positive, Negative, Drain contacts, Thermoplastic shell	Blue housing	AC-PDN-34-BLU
			White housing	AC-PDN-34-WHT
		PDN female, Chassis mount, Positive, Negative, Drain contacts, Thermoplastic shell	Blue housing	AC-PDN-31-BLU
			White housing	AC-PDN-31-WHT

STANDARD DATA AC-PDN CONNECTORS

		VALUE
GENERAL CHARACTERISTICS	Number of contacts	2 + Drain
	PDN Contact Arrangement (Front View of Socket & Pin Insert)	Socket  Pin 
	Termination	Solder
	Max. Wire Gauge - Stranded wire: Power Drain	 12AWG 19AWG
	Flammability rating of plastics	UL94V-0
ELECTRICAL CHARACTERISTICS	Service Voltage RMS	133V [1] **NOTE**: Do not use this series of connectors for mains applications. The drain contact dimensions make it unsuitable for use as an earth contact.
	Test Voltage AC RMS	1400V
	Current carrying capacity:	7.5A
	Typicial 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 - Thermoplastic [2]	19g (0.041lb)
	Typical Cable Retention Force	22Kg to 44Kg (50lb to 100lb)
	Cable O.D. Range - JAWS Clamp	6.5 mm to 8mm (0.255” to 0.314”) - Standard 3 mm to 6.5 mm (0.118” to 0.255”) - Optional - Contact us
	Mechanical Operations	1000 mating cycles
MATERIALS	Connector Shell Shell Colour	Thermoplastic, UL94V-0 Modified PPE Resin Black
	Insulators	UL94V-0 PBT Resin or Modified PPE Resin
	Contact Machined Solder-(Material/Plating)	 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.

Rev 1 - 08/2003



EP / AP SERIES HIGH POWER CONNECTORS

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 series.
- EP series available in 3, 4, 5, 6 and 8 contact arrangements
- AP series available in 4, 5, 6, and 8 contact arrangements.
- Cable clamp capable of supporting cables from 9mm (0.35") to 16mm (0.63") in diameter.
- Quick release, vibration resistant latch lock.
- EP Cable Connectors are supplied with two different boots for different cable diameters.
- AP & EP Series are completely intermatable.

Options

- Solder Bucket termination
- Nickel Plated Zinc Alloy shell
- Black finished Zinc Alloy shell
- Precision machined contacts
- Thermoplastic shell

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.

EP AP

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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.

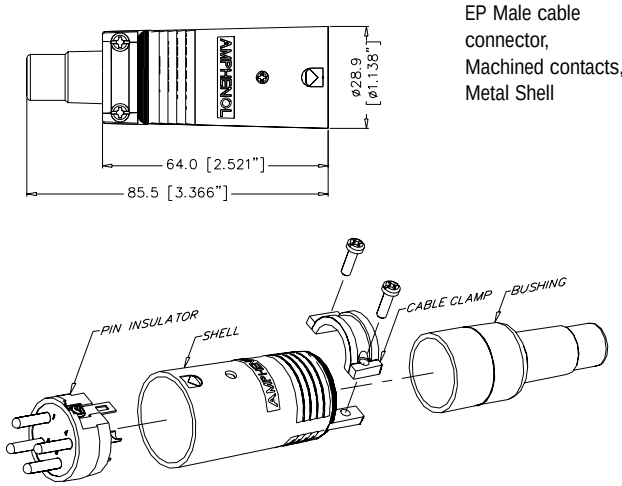
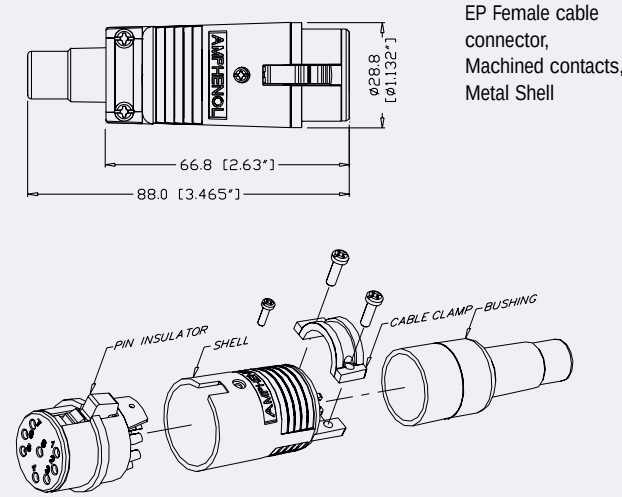
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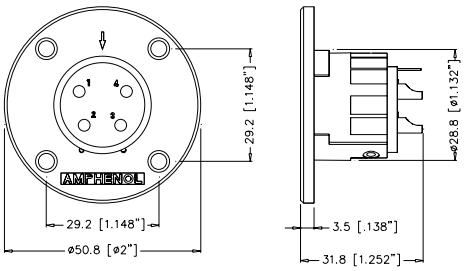
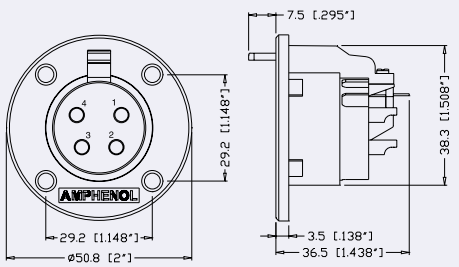
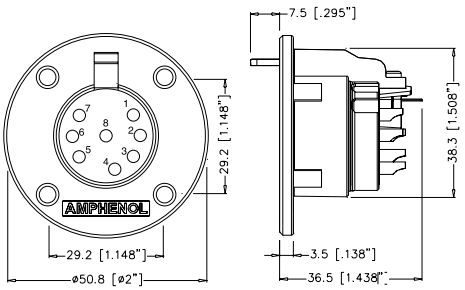
- Solder Bucket connections.
- Precision machined contacts.
- Diecast Metal Housings
- High current contacts
- Male and female cable and chassis connectors available.
- EP Cable Connectors are supplied with two different boots for different cable diameters.

Options: Black Finish Shell.

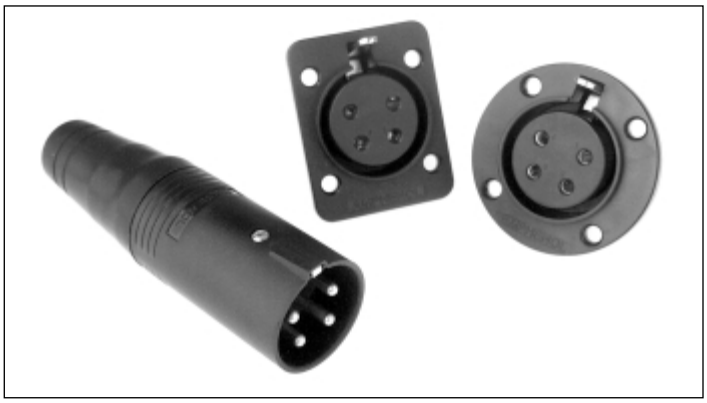
Specifications: Page 57-58

Panel Cutouts: Page 58

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-8-13PT
			8 pole black finish	EP-8-13PBT
		EP Female chassis mount, Round Flange, Stamped contacts, Metal Shell	8 pole nickel finish	EP-8-13P
			8 pole black finish	EP-8-13PB

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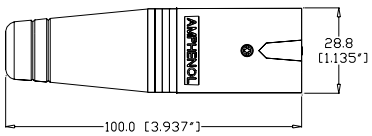
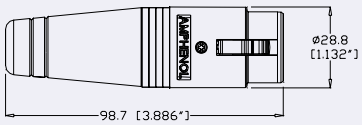
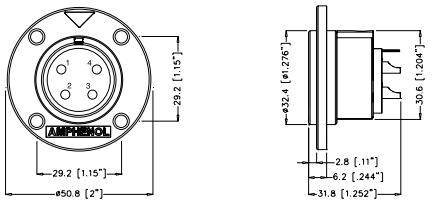
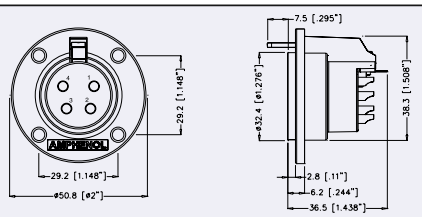
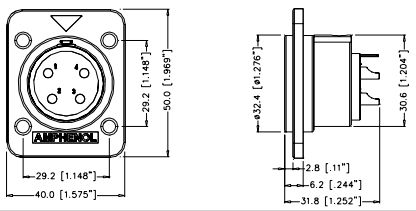
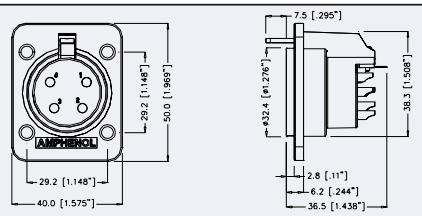
The AP Series provides the same power handling performance as the EP Series in a cost effective, yet durable Thermoplastic housing.

Features:

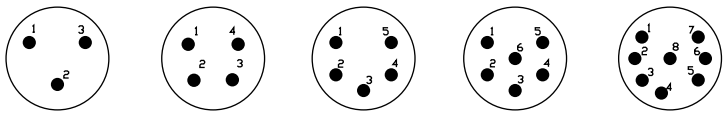
- Solder Bucket connections.
- Precision machined contacts.
- Thermoplastic Housings
- High current contacts
- Male & Female Cable and Chassis connectors available.

Specifications: Page 57-58

Panel Cutouts: Page 58

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				
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.

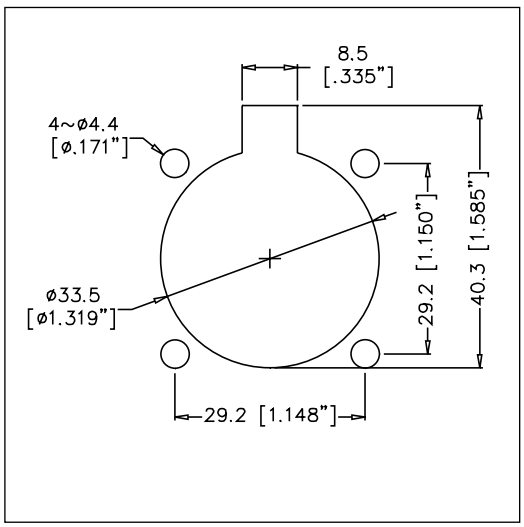
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STANDARD DATA EP/AP (CONT'D)

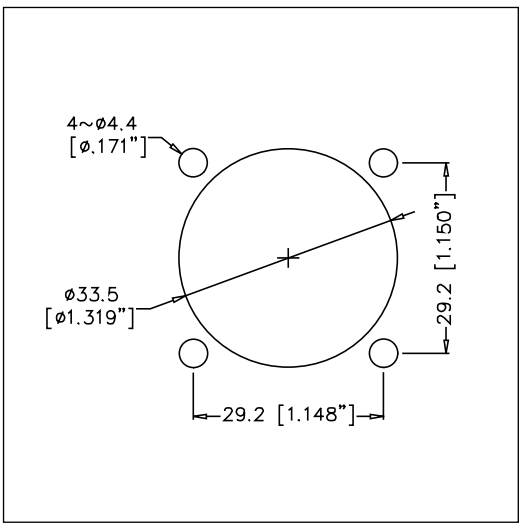
		DETAILS	
MATERIALS	TYPE	**AP**	**EP**
	Connector shell	Modified PPE Resin	Diecast Zinc Alloy
	Shell finish	Black	Satin Nickel or Black
	Insulators	UL94V-0 PBT Resin	
	Cable Bushing	Silicon Rubber	UL94 HB Thermoplastic Elastomer
	Male contact Machined - Solder Material / Plating	Brass / Bright Tin	
	Female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

EP/AP SERIES PANEL CUTOUT DATA - FRONT VIEW

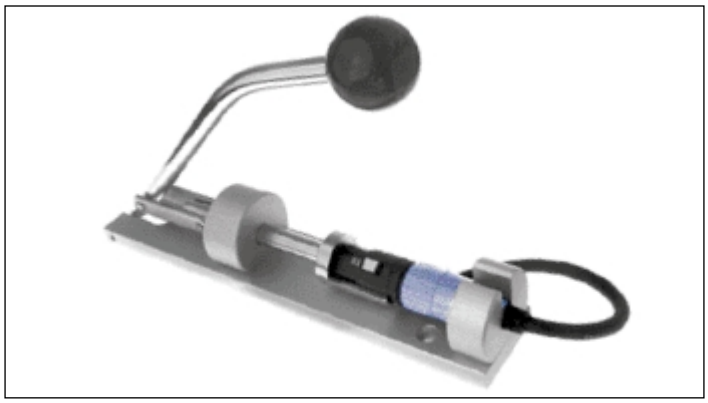
EP 13/AP 13/AP 21



EP 14/AP 14/AP 22

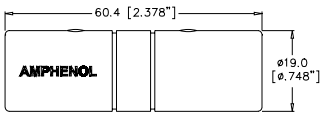
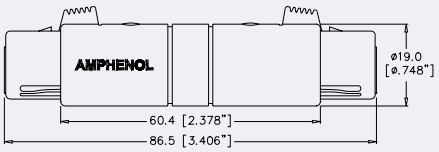
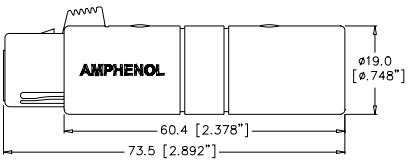
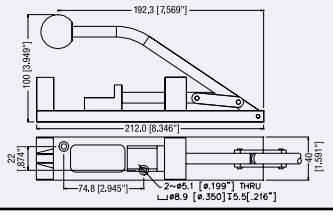
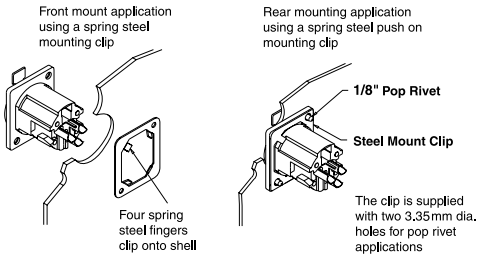


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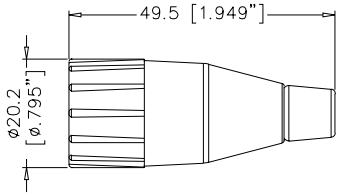
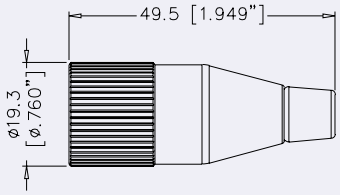
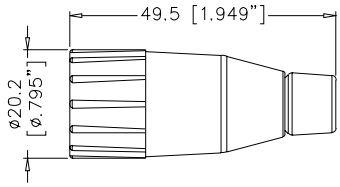
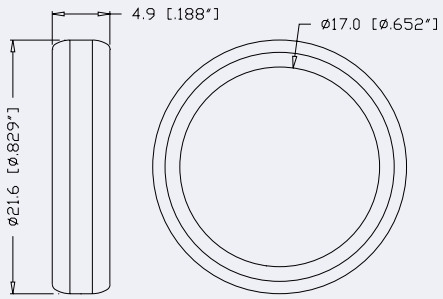


Amphenol have developed a range of accessories to complement the AC Series connectors including:

- 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.
- Chassis mounting clip for installation with, or without screws.
- 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
		Termination Tool	For IDC and Solder cable connectors	T2860
		Mounting Clip used for mounting AC series chassis receptacle with or without screws or pop rivets	Single style clip, 2.4mm holes for M3 self tapping screw.	029-4006-002
			Single style clip, 3.35mm holes.	029-4006-000
			Dual style clip, 3.35mm holes.	029-4006-001

ACC.

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		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
		AC Metal Boot / Backshell, 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
		AC Coloured Identification Rings **Note:** 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
	Not Applicable	Connector display case	Includes: AC Series AP Series EP Series AC - BNC Accessories	CAT-AUDIO-CASE



BNC 75Ω RF CONNECTORS

Within the internationally standardised BNC mating face dimensions, a perfect 75 ohm characteristic impedance cannot be realised. However, at frequencies up to 1000 MHz, the small impedance deviation is negligible for practical applications. Our true 75 ohm connectors with a typical VSWR reading of 1.06:1 at 2000 MHz are identified by an asterisk following the part number.

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.

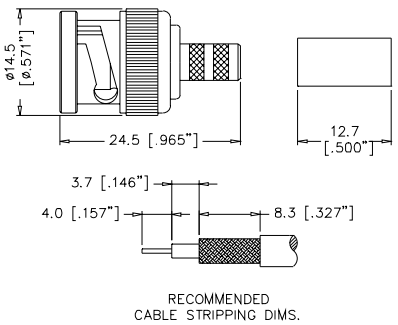
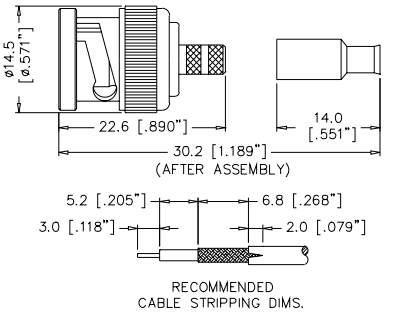
Amphenol



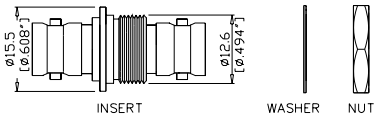
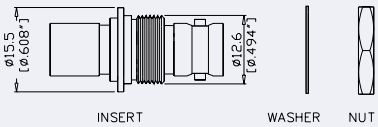
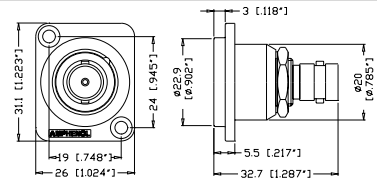
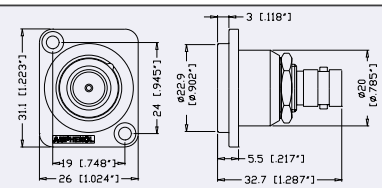
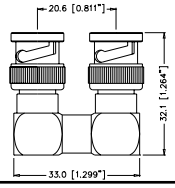
Amphenol manufacture a large range of connectors to suit cables other than those listed below, for example Belden YR23769 and 46899, please contact us to discuss your specific requirements.

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

T1 connectors 0-4GHz are available on request.

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 65	59/ 62/ 140/ 210	Delrin	A	112119
			Teflon	A	112952*
		59/ U-20AWG	Delrin	A	112507
			Teflon	A	112956*
		11	Teflon	D	112576
		11/ U-14AWG/ B8213/ B9292/ B7731/ B1859A	Teflon	D	112606
		6/ 143/ 212	Delrin	E	112508
		B1694A/ B9248	Delrin	E	112565
			Teflon	H	112957*
		6 PLENUM/ B1695A	Delrin	E	112519
			Teflon	E	112958*
		B8281/ B9231/ B9141	Delrin	E	112509
			Teflon	E	112953*
		B88281	Delrin	E	112625
		B1505A	Teflon	A	112951*
		B735A1	Teflon	B	112950*
	Straight Crimp Plug – Captive Contact- Miniature Cable (Remark: With Teflon sleeve / Hex crimp size .178")  Assembly Instruction B - page 65	179/ 187/ B9221	Delrin	B	112133
		179/ U DOUBLE BRAIDED	Delrin	B	112644
		180/ 195/ 122/ B8218/ B1865A/ B1855	Delrin	B	112521
			Teflon	B	112955*
		59/ U PLENUM-20AWG	Teflon	B	112975*

Note: *Centre contact .053" diameter, 30u" Au. True 75 ohm. Use .044 hex or 12 indent crimp part 47009.

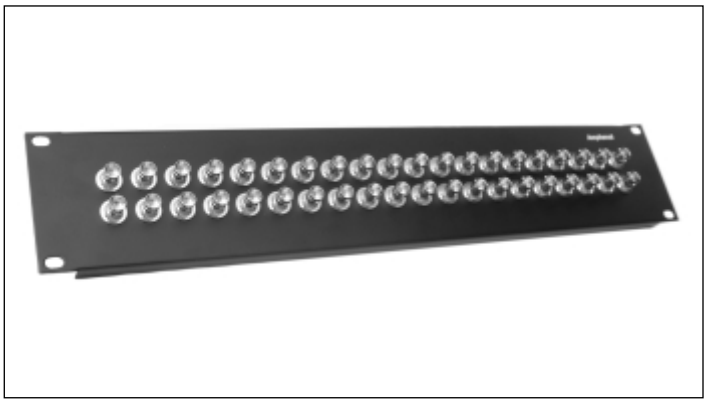
PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION & CABLE TYPE RG-/U	INSULATION	CRIMP TOOL	PART NUMBER
		**Bulkhead Adapter -Isolated** Jack to Jack - Straight Bayonet Lock to Bayonet Lock	Teflon	N/A	AC-BNC-JJA-75
		**Bulkhead Adapter -Isolated** Jack to Jack - Straight Push on to Bayonet Lock	Teflon	N/A	AC-BNC-PJA-75
		**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
		**U - Link** Centre to Centre - 20.6 mm **Note:** Custom Sizes available please contact factory.	Teflon	N/A	BNC - U-LINK 75*1

BNC 75Ω 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
		.350 / .320 / .255	RG59	H	47-10100
		.324 / .178 / .068	6 / 179 / 187	K	47-10200
		.255/ .178/ .068/ .052	59 / 62 / 179 / 187	M	47-10220
		.278/ .255/ .068/ .042	B1505A / B1694A	N	47-10240
	12-Way indent crimp tool	This 12 point, full rachet crimp tool terminates precision BNC, .053 diameter, 75Ω centre contacts, as specified in this catalogue. Tool is designed forTelco/Broadcast applications and is built to M22520 specifications.		True 75 ohm	47009

Amphenol

BNC PATCH PANELS



Features:

- Amphenol 75Ω connectors
- Bayonet lock or Push-on types
- Supplied with adhesive strip ID labels

Options:

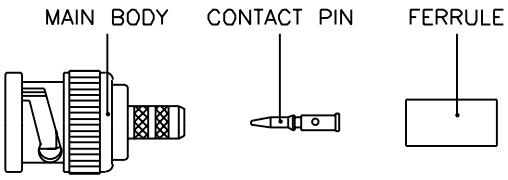
- 1RU, 20 BNC connectors or 2RU, 40 BNC connectors
- Aluminium in Clear or Black anodised
- Steel in Black powder coat
- Customised versions available on request

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	MATERIAL / FINISH	LOADED WITH (refer to page 63 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

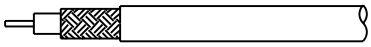
BNC 75Ω RF ASSEMBLY INSTRUCTIONS

ASSEMBLY A

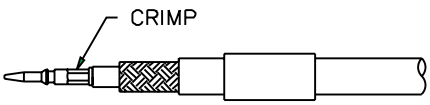
STEP 1



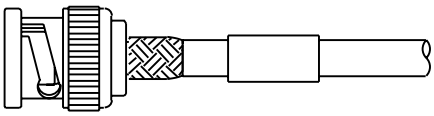
STEP 2



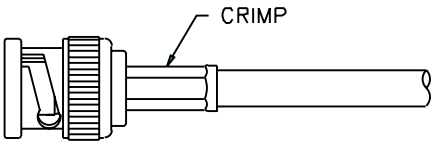
STEP 3



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.

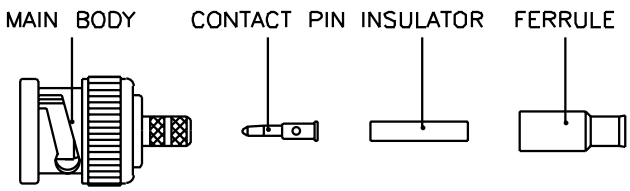
STEP 3. Insert inner conductor into the CONTACT PIN, crimp it with the crimp tool as shown. Then slide the FERRULE onto cable.

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

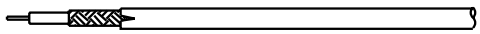
STEP 5. Slide the FERRULE over braid, crimp it with the crimp tool as shown.

ASSEMBLY B

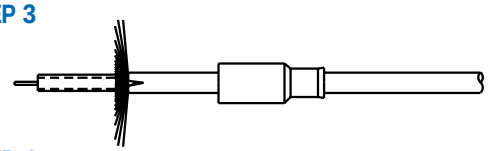
STEP 1



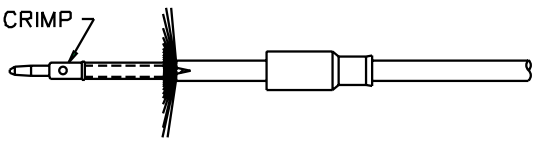
STEP 2



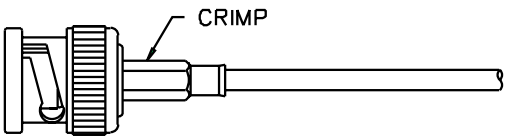
STEP 3



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 75Ω RF CONNECTORS

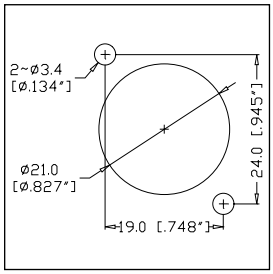
		VALUE	
GENERAL CHARACTERISTICS	Mating	Bayonet Lock	
	Cable Attachment	Crimp - Crimp	
ELECTRICAL CHARACTERISTICS	Impedance	75Ω	
	Frequency Range	0 - 1 GHz	
	Voltage Rating	500V RMS	
	Dielectric withstanding voltage	1500 Volts RMS	
	VSWR	1.05 + 0.1f(GHz) DC to 1 GHz	
	Contact Resistance Centre Contact 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

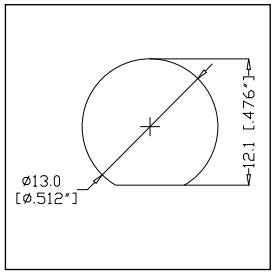
NOTE: These characteristics are typical and may not apply to all connectors.

Rev 1 - 08/2003

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 has introduced two ranges of 1/4" Phone plug connectors to satisfy the needs of the manufacturer and the end user. The PRO – a heavy duty on-road plug and the MUSICIAN - a solid performing general use plug. Both series offer different features and benefits and the most suitable type will be determined by application, budget and personal choice. The 1/4" Phone plug jacks range has been widened with the stackable (piggy back) OEM series, saving board space and manufacturing costs. The RCA and Banana plugs complete our extensive range of entertainment interconnects.

Applications

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

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

- Mono or Stereo (TRS)
- Stylised shell design with Ergonomic grip
- Silver or Gold contact plating
- Keyed Shell
- Optional heavy duty metal backshell / boot
- Great solderability
- Increased solder area on ground contact
- "Jaws" Cable Clamp
- Precision machined contacts

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

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

Features / Options – OEM RANGE 1/4" Phone Jack

- Mono or Stereo (TRS)
- Stackable (Piggy back) mounting
- Vertical or Horizontal PCB mount
- Mono and Stereo switched contacts
- Solder contacts
- Combo contacts
- Metal nut
- Plastic nut

Features / Options – RCA Plug

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

Features / Options – Banana Plug

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

Jaws Cable Clamp Options for T-Series



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



Large Jaws cable clamp (Purple), Cable O.D 6mm to 7.5mm (0.236" to 0.295")

Ordering Codes

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

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.

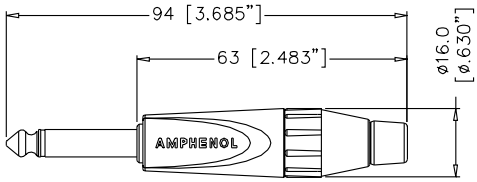
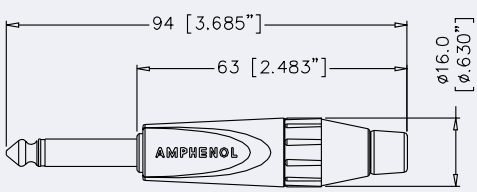
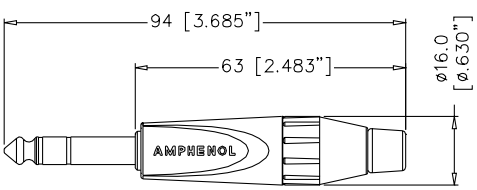
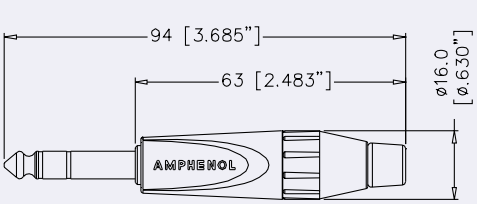
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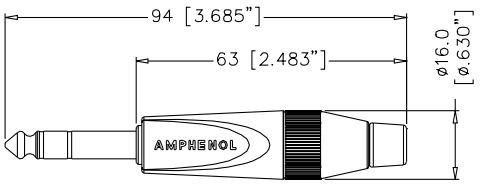
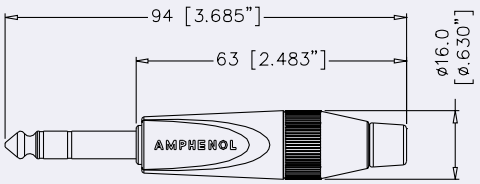
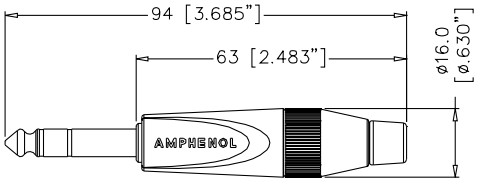
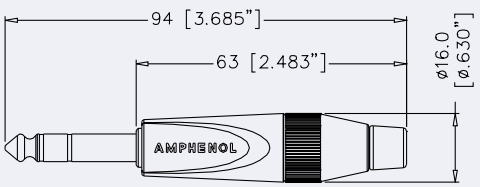
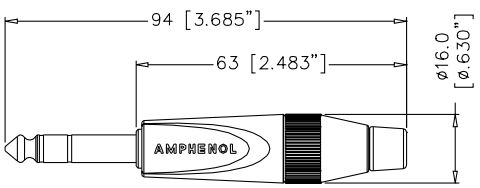


Features:
- Mono or Stereo (TRS).
- Stylised shell design with Ergonomic grip.
- Robust diecast shell in Satin nickel or Black finish.
- Silver or Gold contact plating.
- Keyed shell.
- Optional heavy duty metal backshell / boot.
- Great solderability.
- Increased solder area on ground contact.
- "Jaws"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

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

Part Number Breakdown: Page 70 **Specifications: Page 71**

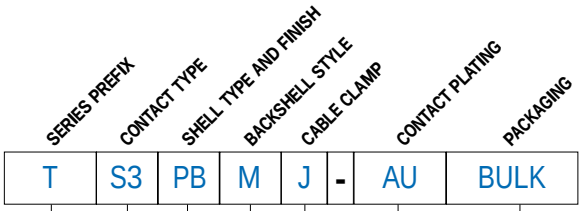
PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		1/4" (6.35mmø) Mono Phone plug, Jaws cable clamp, Thermoplastic backshell, Satin finish.	Standard	TM2P
			Gold Plated Contacts	TM2P-AU
			Large Cable Clamp	TM2PJ
			Bulk Pack	TM2P BULK
		1/4" (6.35mmø) Mono Phone plug, Jaws cable clamp, Thermoplastic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

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) Phone plug, Jaws cable clamp, Black Metal backshell, Satin finish shell.	Mono (Std. Clamp)	TM2PM
			Mono (Large Clamp)	TM2PMJ
			Stereo (Std. Clamp)	TS3PM
			Stereo (Large Clamp)	TS3PMJ

PART NUMBER BREAKDOWN

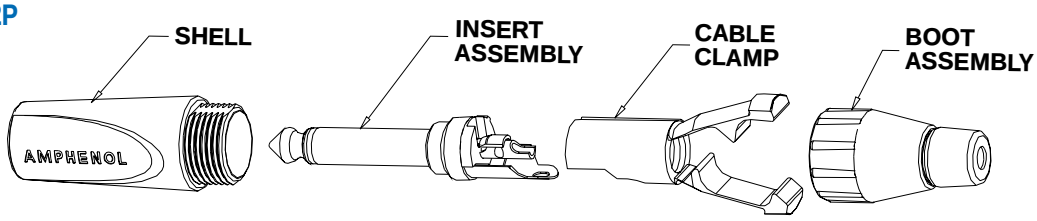
T-SERIES (PRO RANGE)

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



SERIES PREFIX	T	=	Series Prefix
CONTACT TYPE	M2	=	2 Pole (mono)
	S3	=	3 Pole, tip/ring/sleeve (stereo)
SHELL TYPE AND FINISH	P	=	Plug Satin Nickel
	PB	=	Plug Matt Black
BACKSHELL TYPE	Blank	=	Plastic Nut
	M	=	Metal Nut - Black
	N	=	Metal Nut - Satin Nickel
CABLE CLAMP	Blank	=	Standard Jaws 3mm to 6mm Cable O.D. (0.118"Ø to 0.236"Ø)
	J	=	Large Jaws 6mm to 7.5mm Cable O.D.(0.236"Ø to 0.295"Ø)
CONTACT PLATING	Blank	=	Silver 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
GENERAL CHARACTERISTICS	Nunber of Contacts	2 Pole (Mono) 3 Pole Tip Ring Sleeve (Stereo)
	Termination	Solder
	Max. Wire Gauge - Stranded Wire	2 Pole (Mono): AWG 16~1.5mm^2 3 Pole (Stereo): AWG 18~1mm^2
	Flammability rating of insulating plastics	UL94V-0
	Solderability, complies with	IEC 68-2-20
ELECTRICAL CHARACTERISTICS	Current Carrying Capacity	10A (Depends on Mating Connector and Cable)
	Typical Contact Resistance	Depends on Mating Connector
	Insulation resistance (initial) After Damp Heat Test	>2GΩ ≥ 1GΩ
	Dielectric Withstand Voltage	2 Pole : 1.5 kV dc 3 Pole : 1 kV dc
CLIMATIC CHARACTERISTICS	Protection Class	IP40
	Operating Temperature	-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 Cable O.D. - Large Jaw	3mm to 6mm (0.118" to 0.236") 6mm to 7.5mm (0.236" to 0.295")
MATERIALS	Connector Shell Material Shell Finish	Diecast Zinc Alloy EZDA No.3 Satin Nickel or Black Polyester
	Insulators	UL94 V-0 PBT Resin or Modified PPE Resin - Black
	Boot / Backshell	UL94 V-0 PBT Resin or Modified PPE Resin - Black or Metal $CuZn^{39}Pb^3$
	Finish	Satin Nickel or Black
	Cable Clamp	UL94 V-0 PBT Modified PPO Resin - Black
	Cable Bushing	Thermoplastic Polyurethane
	Contacts / Plating	Brass /Ag or Au over 2µm Ni

Rev 1 - 08/2003

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

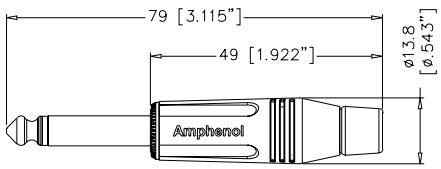
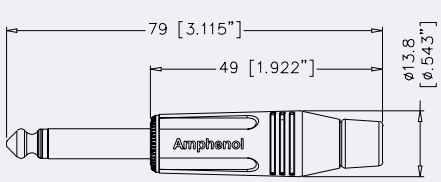
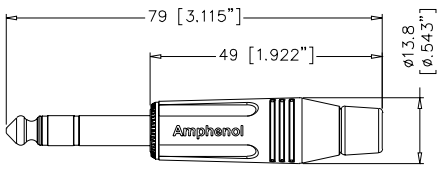
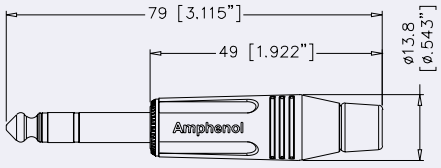
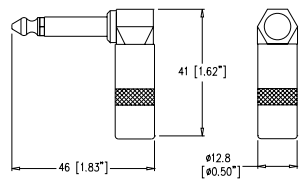
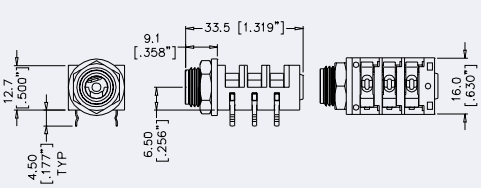
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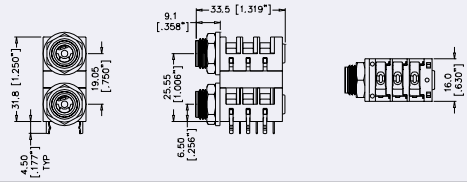
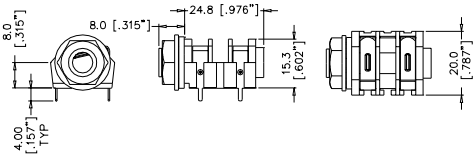
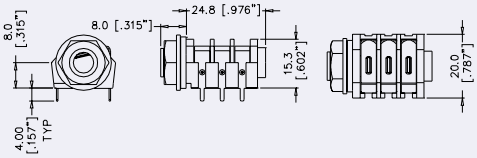
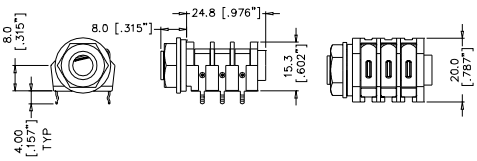
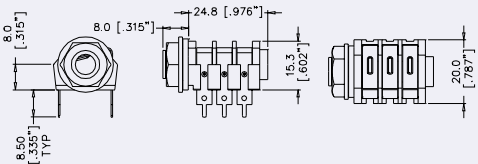
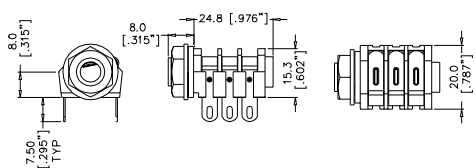
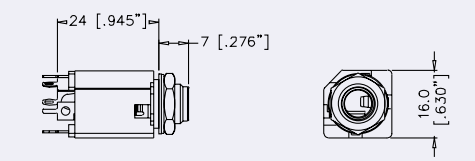
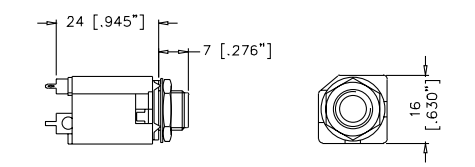
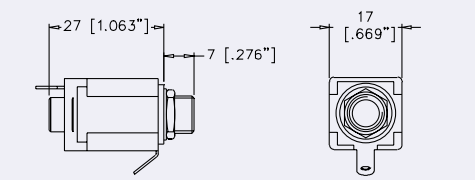


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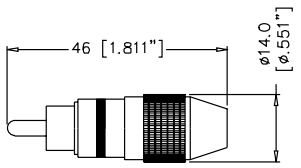
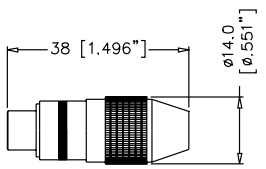
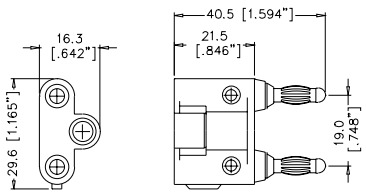
- Mono or Stereo (TRS).
- Stylish shell design.
- Robust diecast shell in Satin nickel or Black finish.
- Silver or Gold contact plating.
- Flexible grommet cable protection.
- Improved solderability.
- Precision machined contacts.
- Convenient bulk packaging as standard.

Options: Black Shell, Gold contacts.

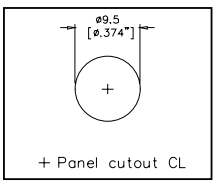
PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		1/4" (6.35mmø) Mono Phone plug, Diecast Shell, Satin finish, Flexible grommet. (Supplied in Bulk pack of 100 only)	Standard	ACPM-GN BULK
			Gold Plated Contacts	ACPM-GN-AU BULK
		1/4" (6.35mmø) Mono Phone plug, Diecast Shell, Black finish, Flexible grommet. (Supplied in Bulk pack of 100 only)	Standard	ACPM-GB BULK
			Gold Plated Contacts	ACPM-GB-AU BULK
		1/4" (6.35mmø) Stereo Phone plug, Diecast Shell, Satin finish, Flexible grommet. (Supplied in Bulk pack of 100 only)	Standard	ACPS-GN BULK
			Gold Plated Contacts	ACPS-GN-AU BULK
		1/4" (6.35mmø) Stereo Phone plug, Diecast Shell, Black finish, Flexible grommet. (Supplied in Bulk pack of 100 only)	Standard	ACPS-GB BULK
			Gold Plated Contacts	ACPS-GB-AU BULK
		1/4" (6.35mmø) Phone plug, Right Angle, Machined shell, Nickel finish	Mono	ACPM - MRN
			Stereo	ACPS - MRN
		1/4" (6.35mmø) Phone Jack, Horizontal Snap-fit PCB, Plastic housing, Metal nut and entry bore	Mono	ACJM - MHDR
			Stereo	ACJS - MHDR

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	TYPE	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) Jack, Horizontal PCB mount, Plastic housing with metal insert	Mono - Plastic Nut	ACJM - PH
			Mono - Metal Nut	ACJM - MH
		1/4" (6.35mmø) Jack, Horizontal PCB mount, Plastic housing with metal insert	Stereo - Plastic Nut	ACJS - PH
			Stereo - Metal Nut	ACJS - MH
		1/4" (6.35mmø) Jack, 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, Vertical PCB mount, Needle eye contacts, Star washer, Metal nut and insert	Refer circuit schematic chart page 74	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	Mono	ACJM-MV
			Stereo	ACJS-MV
		1/4" (6.35mmø) Jack, Solder lugs, Metal nut and insert	Mono	ACJM-MS
			Stereo	ACJS-MS

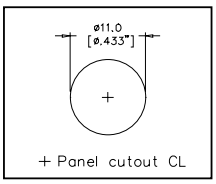
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PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	TYPE	PART NUMBER
		RCA Male plug, Gold finish Max cable O.D 6mm (0.236")	Red	AC-RCAMR-AU
		RCA Male plug, Gold finish Max cable O.D 6mm (0.236")	Black	AC-RCAMB-AU
		RCA Female plug, Gold finish Max cable O.D 6mm (0.236")	Red	AC-RCAFR-AU
		RCA Female plug, Gold finish Max cable O.D 6mm (0.236")	Black	AC-RCAFB-AU
		Banana Plug – Dual, Plastic housing, Nickel plated contacts Max cable O.D 5mm (0.196")	Red	AC-BPD-R
			Black	AC-BPD-B
		Banana Plug – Dual, Plastic housing, Gold plated contacts Max cable O.D 5mm (0.196")	Red	AC-BPD-R-AU
			Black	AC-BPD-B-AU

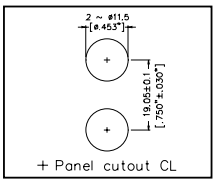
PANEL CUTOUTS
-FRONT VIEW



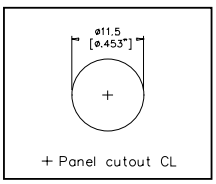
ACJM-MV
ACJS-MV
ACJM-MS
ACJS-MS
ACJM-MN-2
ACJS-MN-3
ACJM-MN-2S
ACJS-MN-3S
ACJS-MN-5



ACJM/S-PH
ACJM/S-MH
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ACJM/S-MHS

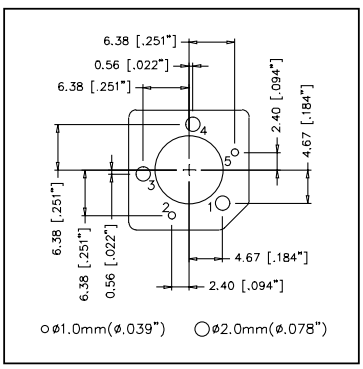


ACJM-MHD
ACJS-MHD

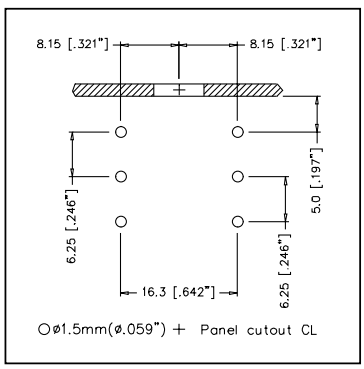


ACJM-MHDR
ACJS-MHDR

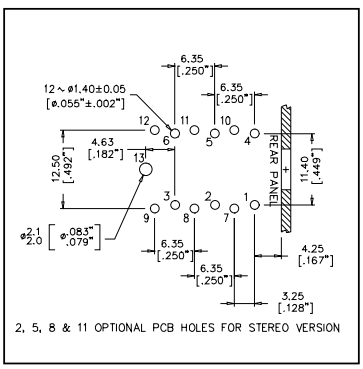
PCB FOOTPRINT
- CONNECTOR SIDE OF PCB



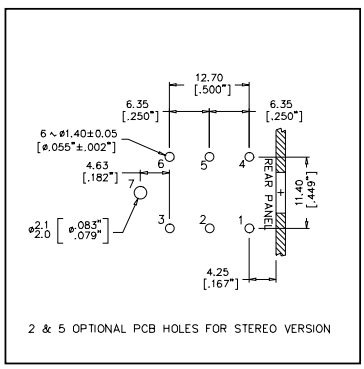
ACJM-MV
ACJS-MV
ACJM-MN-2
ACJS-MN-3
ACJM-MN-2S
ACJS-MN-3S
ACJS-MN-5



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



ACJM-MHD
ACJS-MHD



ACJM-MHDR
ACJS-MHDR

SCHEMATIC CHART

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

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 200 pins
- Gold plated crimp contacts
- Synthetic inserts
- Environmental resistant
- Positive Bayonet locking
- PG cable gland

Features / Options - MP-62 Series

- 39 or 61 pins
- Gold plated solder contacts
- Neoprene inserts
- Environmental resistant
- Positive Bayonet locking
- PG cable gland

Features / Options - Socapex™

- 19 pin
- Gold plated machined solder contacts
- Closed entry socket contacts
- Two part backshell ensures simple wiring and maintenance
- Thermoset inserts
- Adaptable capacity cable clamp

Features / Options - C146 Series Rectangular

- 3 to 244 pins
- Silver contact plating
- Zinc diecast aluminium housings
- Positive latch locking

Request catalogue CAT-AMPHENOL359

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.

Amphenol

MP-41 SERIES



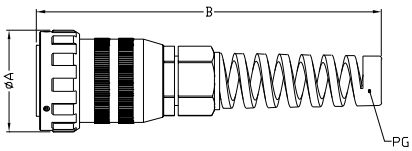
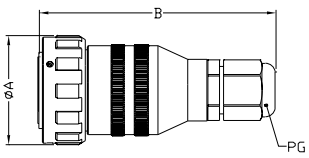
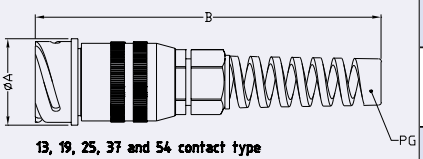
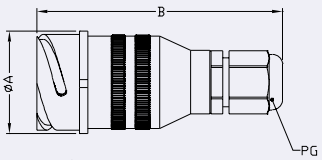
Amphenol's MP-41 series of multipin connectors utilise the same design principals of the rugged Mil-C-5015 military connectors. They can withstand high shock and vibration environments and are ideal for tough on-road applications. Featuring a quick mating bayonet coupling with an audible full mating feature ensures a positive connection every time. Available from 13 to 200 pins with gold plated crimp contacts supplied with each connector as standard.

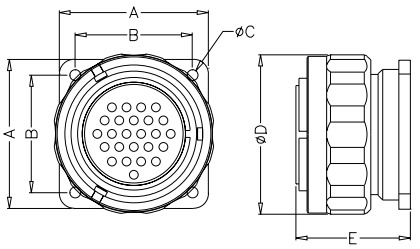
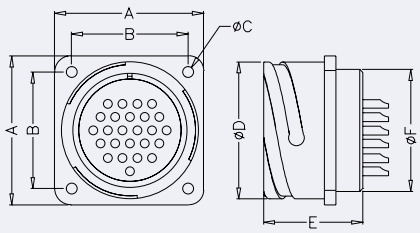
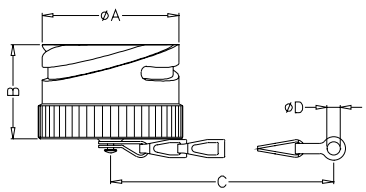
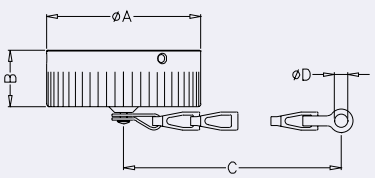
Features:

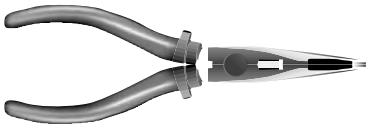
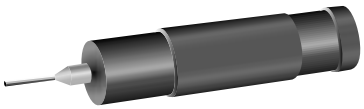
- 13 to 200 pins (4 to 66 channel)
- Gold plated crimp contacts
- Synthetic insert
- Protective dust caps
- Industry standard compatible
- Environmental resistant
- Black finish
- Positive bayonet locking
- PG cable glands
- IP67 rated

Options: Solder contacts available as a special. **Crimp Tooling: Page 78**

Specifications: Page 79 **Part Number Breakdown: Page 78**

PRODUCT - FIGURE	Dimensions in mm (inches) DRAWING	Dimensions in mm (inches) A	B	PG	PINS	PART NUMBER
	Straight cable plug with socket contacts, Black finish, supplied complete with gold plated crimp contacts.  13, 19, 25, 37 and 54 contact type  85, 150 and 200 contact type	39.9 (1.57)	160 (6.30)	11	13	MP-4106-13S
		43.1 (1.69)	171 (6.73)	13.5	19	MP-4106-19S
		46.6 (1.83)	193 (7.60)	16	25	MP-4106-25S
		53.4 (2.10)	210 (8.26)	21	37	MP-4106-37S
		60.1 (2.36)	210 (8.26)	21	54	MP-4106-54S
		72.4 (2.85)	137 (5.40)	29	85	MP-4106-85S
		72.4 (2.85)	145 (5.70)	36	150	MP-4106-150S
		72.4 (2.85)	145 (5.70)	36	200	MP-4106-200S
	Cable connecting receptacle with pin contacts, Black finish, supplied complete with gold plated crimp contacts.  13, 19, 25, 37 and 54 contact type  85, 150 and 200 contact type	37.5 (1.47)	160 (6.30)	11	13	MP-4101-13P
		40.5 (1.59)	171 (6.73)	13.5	19	MP-4101-19P
		41.5 (1.63)	193 (7.60)	16	25	MP-4101-25P
		50 (1.96)	210 (8.26)	21	37	MP-4101-37P
		56.5 (2.22)	210 (8.26)	21	54	MP-4101-54P
		69 (2.71)	137 (5.40)	29	85	MP-4101-85P
		69 (2.71)	145 (5.70)	36	150	MP-4101-150P
		69 (2.71)	145 (5.70)	36	200	MP-4101-200P

PRODUCT - FIGURE	Dimensions in mm (inches) DRAWING	Dimensions in mm (inches) A	B	C	D	E	F	PINS	PART NUMBER
	Panel plug with socket contacts, Black finish, supplied complete with gold plated crimp contacts. 	38 (1.49)	29.4 (1.15)	3.2 (0.13)	42.16 (1.66)	38.1 (1.5)	N/A	13	MP-4164-13S
		41 (1.61)	31.8 (1.25)	3.2 (0.13)	44.95 (1.77)	38.1 (1.5)	N/A	19	MP-4164-19S
		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
		50.8 (1.99)	39.7 (1.56)	3.73 (0.14)	52.9 (2.09)	41.3 (1.67)	N/A	37	MP-4164-37S
		57 (2.24)	44.5 (1.75)	4.39 (0.17)	61.97 (2.44)	44.7 (1.76)	N/A	54	MP-4164-54S
		69.8 (2.74)	55.5 (2.18)	4.39 (0.17)	73.91 (2.91)	44.7 (1.76)	N/A	85	MP-4164-85S
		69.8 (2.74)	55.5 (2.18)	4.39 (0.17)	73.91 (2.91)	44.7 (1.76)	N/A	150	MP-4164-150S
		69.8 (2.74)	55.5 (2.18)	4.39 (0.17)	73.91 (2.91)	44.7 (1.76)	N/A	200	MP-4164-200S
	Panel receptacle with pin contacts, Black finish, supplied complete with gold plated crimp contacts. 	38 (1.49)	29.4 (1.15)	3.05 (0.12)	34.2 (1.34)	34.5 (1.35)	29 (1.14)	13	MP-4102-13P
		41 (1.61)	31.8 (1.25)	3.05 (0.12)	37.4 (1.47)	34.5 (1.35)	32.2 (1.26)	19	MP-4102-19P
		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
		50.8 (1.99)	39.7 (1.56)	3.73 (0.14)	46.7 (1.83)	35.7 (1.40)	41.4 (1.62)	37	MP-4102-37P
		57 (2.24)	44.5 (1.75)	4.39 (0.17)	53.4 (2.10)	37.3 (1.46)	47.8 (1.88)	54	MP-4102-54P
		69.8 (2.74)	55.5 (2.18)	4.39 (0.17)	65.5 (2.57)	37.3 (1.46)	59 (2.32)	85	MP-4102-85P
		69.8 (2.74)	55.5 (2.18)	4.39 (0.17)	65.5 (2.57)	37.3 (1.46)	59 (2.32)	150	MP-4102-150P
		69.8 (2.74)	55.5 (2.18)	4.39 (0.17)	65.5 (2.57)	37.3 (1.46)	59 (2.32)	200	MP-4102-200P
	Plug protective dustcap to suit MP-4106 type and MP-4164 type. 	40.5 (1.59)	33 (1.29)	127 (4.99)	4.7 (0.18)	-	-	13	MP-25042-13
		43.50 (1.71)	33 (1.29)	127 (4.99)	4.70 (0.18)	-	-	19	MP-25042-19
		46.5 (1.83)	44 (1.73)	140 (5.51)	4.7 (0.18)	-	-	25	MP-25042-25
		54 (2.12)	33 (1.29)	197 (7.75)	5.6 (0.22)	-	-	37	MP-25042-37
		60 (2.36)	46 (1.81)	197 (7.75)	5.6 (0.22)	-	-	54	MP-25042-54
		73 (2.87)	33 (1.29)	197 (7.75)	5.6 (0.22)	-	-	85	MP-25042-85
		73 (2.87)	33 (1.29)	197 (7.75)	5.6 (0.22)	-	-	150	MP-25042-85
		73 (2.87)	33 (1.29)	197 (7.75)	5.6 (0.22)	-	-	200	MP-25042-85
	Receptacle protective dustcap to suit MP-4101 and MP-4102 types 	40.5 (1.59)	21.2 (0.83)	127 (4.99)	4.7 (0.18)	-	-	13	MP-25043-13
		43.5 (1.71)	21.20 (0.83)	127 (4.99)	4.7 (0.18)	-	-	19	MP-25043-19
		47 (1.85)	21.2 (0.83)	140 (5.51)	4.7 (0.18)	-	-	25	MP-25043-25
		54 (2.12)	21.2 (0.83)	197 (7.75)	5.6 (0.22)	-	-	37	MP-25043-37
		60.5 (2.38)	21.2 (0.83)	197 (7.75)	5.6 (0.22)	-	-	54	MP-25043-54
		73 (2.87)	21.2 (0.83)	197 (7.75)	5.6 (0.22)	-	-	85	MP-25043-85
		73 (2.87)	21.2 (0.83)	197 (7.75)	5.6 (0.22)	-	-	150	MP-25043-85
		73 (2.87)	21.2 (0.83)	197 (7.75)	5.6 (0.22)	-	-	200	MP-25043-85

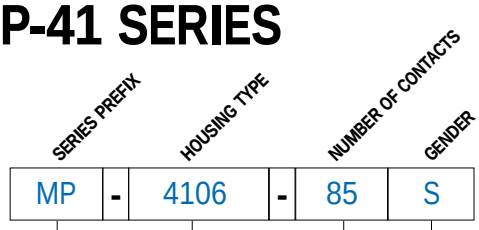
PRODUCT - FIGURE	DRAWING	DESCRIPTION	NO. OF PINS	PART NUMBER
	NOT APPLICABLE	Crimp Tool	All	M22520/1-01
	NOT APPLICABLE	Positioner / Turret	13-85	TH29-1
			150	ON REQUEST
			200	ON REQUEST
	NOT APPLICABLE	Insertion tool	13-85	MP-INS-16
			150	ON REQUEST
			200	ON REQUEST
	NOT APPLICABLE	Extraction tool	13-85	MP-EXT-16
			150	ON REQUEST
			200	ON REQUEST
	NOT APPLICABLE	Contact Pilot Pin	13-85	10-242758-16
	NOT APPLICABLE	Pin Contact	Crimp size 16	MP-108295
	NOT APPLICABLE	Socket Contact	Crimp size 16	MP-108457

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

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
	25042	=	Dustcap for plug
	25043	=	Dustcap for receptacle
NO. OF CONTACTS			13, 19, 25, 37, 54, 85, 150, 200
GENDER	P	=	Male pin contacts
	S	=	Female socket contacts

STANDARD DATA MP-41 SERIES

		VALUE							
GENERAL CHARACTERISTICS	Number of contacts	13	19	25	37	54	85	150	200
	Number of channels	4	6	8	12	16	28	48	66
	Termination	Crimp							
	Wire Gauge - Stranded Wire	16AWG						18AWG	20AWG
ELECTRICAL CHARACTERISTICS	Operating Voltage at Sea level - DC	250V*						250V*	250V*
	Operating Voltage at Sea level - AC	200V*						200V*	200V*
	Test Voltage AC RMS	1000V						1000V	1000V
	Current Carrying Capacity	13A						7.5A	7.5A
	Typical Contact Resistance	3.46mΩ						11.25mΩ	11.25mΩ
	Insulation Resistance	3.46mΩ						11.25mΩ	11.25mΩ
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	500 mating cycles							
MATERIALS	Connector / Shell Finish	Aluminium Alloy / Black							
	Insert	Synthetic Insert to MIL-R-3065							
	Male pin contact / Plating	Brass / Gold flash plated							
	Female socket contact / Plating	Brass / Gold flash 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”)	

*Not suitable for domestic applications above 50V

Amphenol

MP-62 SERIES

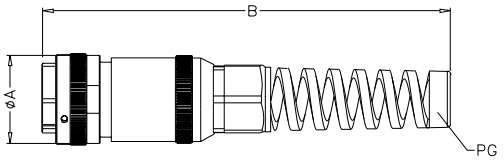
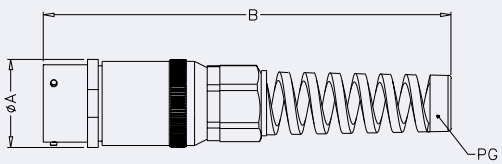


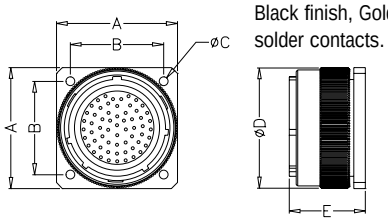
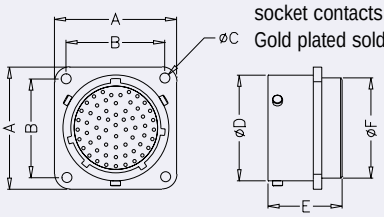
Amphenol's Multipin MP-62 series of circular connectors utilise the same design principles of the Mil-C-26482 military connectors. Featuring a three point quick mating bayonet coupling and five key polarisation ensuring a positive connection every time. Available in two contact pin layouts 39 and 61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

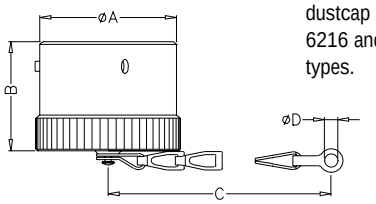
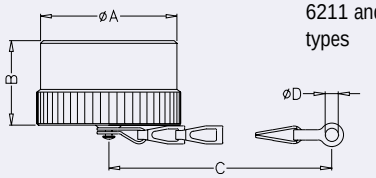
Features:

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

Specifications: Page 81 **Wiring Info: Page 89**

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	Dimensions in mm (inches) A	B	PG	PINS	PART NUMBER
		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
			45.2 (1.78)	183.8 (7.24)	16	61	MP-6216-61P
		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
			43.0 (1.70)	183.8 (7.24)	16	61	MP-6211-61S

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	Dimensions in mm (inches) A	B	C	D	E	F	PINS	PART NUMBER
		Panel plug with pin contacts, Black finish, Gold plated solder contacts.	On Request						39	MP-6256-39P
			On Request						61	MP-6256-61P
		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
			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

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	Dimensions in mm (inches) A	B	C	D	PINS	PART NUMBER
		Plug protective dustcap to suit MP-6216 and MP-6256 types.	40.50 (1.59)	33 (1.29)	127 (4.99)	4.70 (0.18)	39	MP-742-39
			43.50 (1.71)	33 (1.29)	127 (4.99)	4.70 (0.18)	61	MP-742-61
		Receptacle protective dustcap to suit MP-6211 and MP-6212 types	40.50 (1.59)	21.20 (0.83)	127 (4.99)	4.70 (0.18)	39	MP-738-39
			43.50 (1.71)	21.20 (0.83)	127 (4.99)	4.70 (0.18)	61	MP-738-61

STANDARD DATA MP-62 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
ELECTRICAL CHARACTERISTICS	Operating Voltage at Sea level - DC	600V*	
	Operating Voltage at Sea level - AC	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	
	Mechanical Operations	500 mating cycles	
MATERIALS	Connector / Shell Finish	Aluminium Alloy / Black	
	Insert	Neoprene	
	Male pin contact machined - Plating	Brass / Gold flash plated	
	Female socket contact machined - Plating	Brass / Gold flash plated	
CLAMPING CHARACTERISTICS	PG Gland	Brass / Gold flash plated	
	Cable Clamping range mm (inches)	9-14 (0.35-0.55)	

*Not suitable for domestic applications above 50V

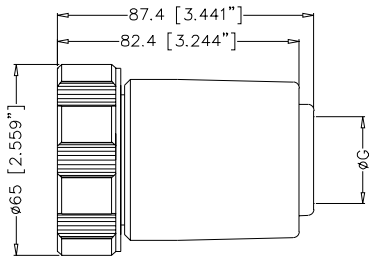
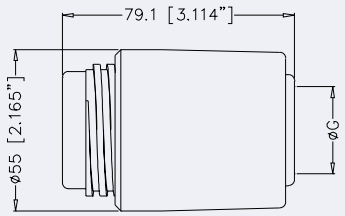
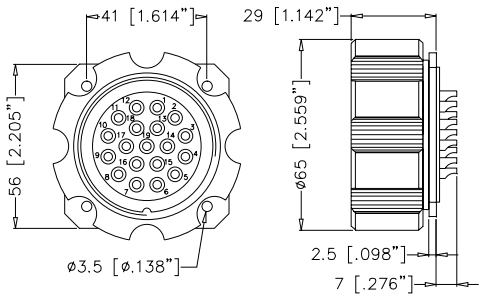
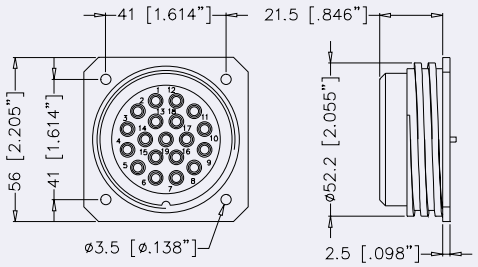
Amphenol

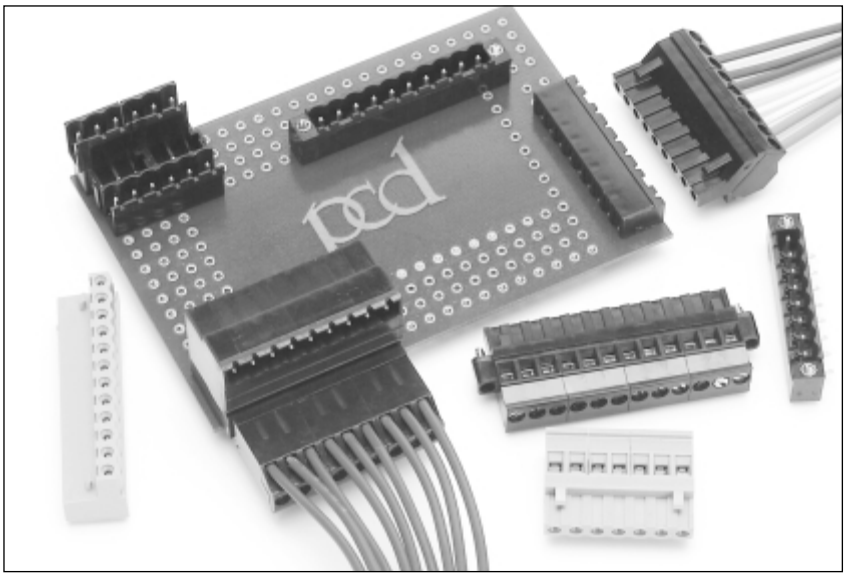


Amphenol is the original manufacturer of the Socapex™ connector which is now accepted as the worldwide standard in the Lighting industry. A reliable "closed entry" socket contact design prevents any misalignment into the female insert even when the terminations are placed under stress by the cable. The housings are manufactured of aluminum alloy which provides excellent reliability and robustness. Please contact us for availability on other contact options.

Features:

- 19 pin
- Gold plated machined solder contacts.
- Closed entry socket contacts.
- Two part backshell ensures simple wiring and maintenance.
- Thermoset inserts.
- Adaptable capacity cable clamp

PRODUCT - FIGURE	DRAWING	DESCRIPTION	PART NUMBER
		Cable Plug, 19 pin contacts, Thermoset insert Supplied with 3 sets of cable clamp adaptors: G. Dia. : 14-18mm 19-24mm 24-30mm	SLFMD419AR
		Inline Socket receptacle, 19 socket contacts, Thermoset insert Supplied with 3 sets of cable clamp adaptors: G. Dia. : 14-18mm 19-24mm 24-30mm	SLFFDR419AR
		Panel plug, 19 pin contacts, Thermoset insert	SLEME419AR
		Panel receptacle, 19 socket contacts, Thermoset insert	SLEF419AR



ELF SERIES PLUG AND HEADER SYSTEMS

Amphenol PCD ELF line comprises a family of durable pluggable terminal blocks and headers on 5mm (.197") spacing that provide flexible wire-to-board interconnect solutions for a wide variety of applications. ELF design and materials include numerous features and advantages which combine to make this the most advanced pluggable block available. The ELF family is UL, CSA and TUV recognised.

ELF series plugs mate with ELF series headers, and accommodate competitive headers as well. The moving vise clamp ensures high-reliability wire termination by providing a direct, high-pressure connection between contact and wire. Precision molded housings allow wire termination while the connector is either plugged or unplugged.

Please visit www.amphenolpcd.com to view the complete Amphenol PCD terminal line.

Features / Options ELFP / ELFF Series

- ELFP feature wire entry parallel to contact and mating direction
- ELFF "front-front" feature wire insertion and screw actuation from the front of the plug
- High reliability wire termination
- Smooth mating / unmating
- High performance materials
- Wiring while engaged
- Easy screwdriver separation

Features / Options ELFH Series

- Precision molded from tough, stable PBT
- Smooth mating / unmating
- Easy screwdriver separation

Features / Options ELFA Series

- Two tier aligned
- Increase board density
- Precision molded in high temperature polyamide
- Smooth mating / unmating
- Easy screwdriver separation

Request catalogue CAT-AMPHENOL801

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.

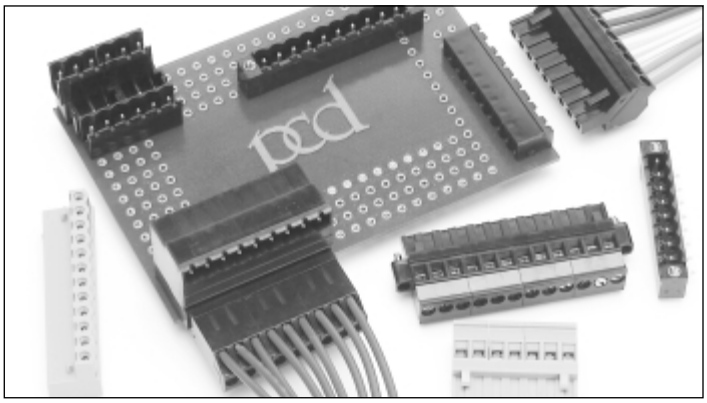
4) Read the product description column for the products standard features.

5) Use 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.

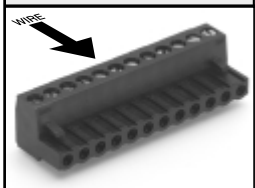
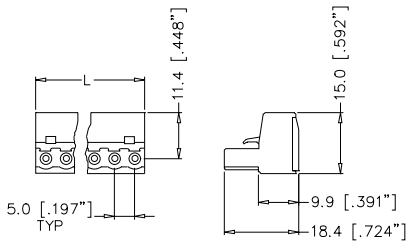
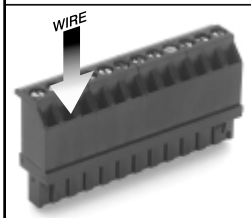
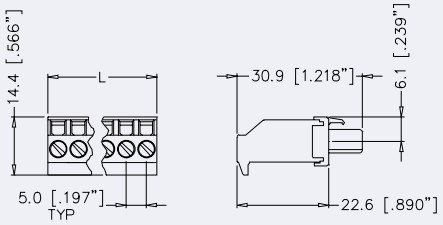
8) Please contact us directly if you have any further problems.

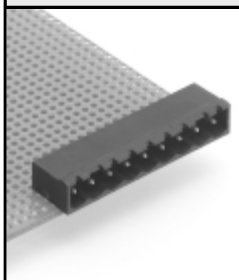
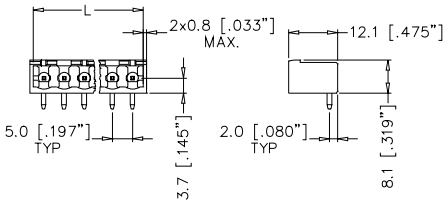
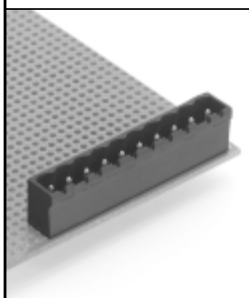
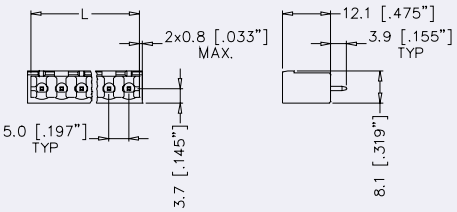
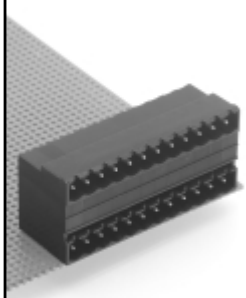
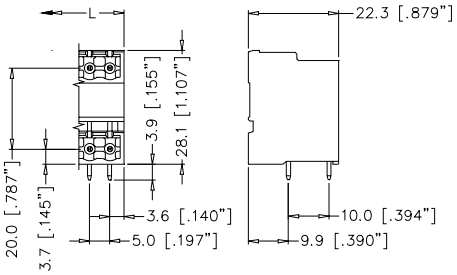
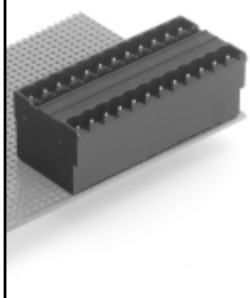
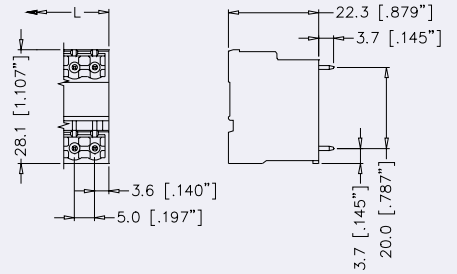


Features:

- High reliability wire termination
- Smooth mating / unmating
- High performance materials
- Black housings
- Wiring while engaged
- Easy screwdriver separation
- Contact us for positions not listed below
- Custom marking and polarising keys available on request

Specifications: Page 86

PRODUCT - FIGURE	DRAWING	DESCRIPTION	POS.	L DIMENSIONS mm (inches)	PART NUMBER
		ELFP Right angle plug, 5.0mm (.197") pitch, Black.	2	10 (0.39)	ELFP02110
			3	15 (0.59)	ELFP03110
			4	20 (0.78)	ELFP04110
			5	25 (0.98)	ELFP05110
			6	30 (1.18)	ELFP06110
			8	40 (1.57)	ELFP08110
			10	50 (1.96)	ELFP10110
			12	60 (2.36)	ELFP12110
			16	80 (3.14)	ELFP16110
			20	100 (3.93)	ELFP20110
			24	120 (4.72)	ELFP24110
		ELFF Top entry plug, 5.0mm (.197") pitch, Black.	2	10 (0.39)	ELFF02130
			3	15 (0.59)	ELFF03130
			4	20 (0.78)	ELFF04130
			5	25 (0.98)	ELFF05130
			6	30 (1.18)	ELFF06130
			8	40 (1.57)	ELFF08130
			10	50 (1.96)	ELFF10130
			12	60 (2.36)	ELFF12130
			16	80 (3.14)	ELFF16130
			20	100 (3.93)	ELFF20130
			24	120 (4.72)	ELFF24130

PRODUCT - FIGURE	DRAWING	DESCRIPTION	L (inches)	POS.	PART NUMBER
		ELFH Horizontal – closed header, 5.0mm (.197") pitch, Black.	10 (0.39)	2	ELFH02110
			15 (0.59)	3	ELFH03110
			20 (0.78)	4	ELFH04110
			25 (0.98)	5	ELFH05110
			30 (1.18)	6	ELFH06110
			40 (1.57)	8	ELFH08110
			50 (1.96)	10	ELFH10110
			60 (2.36)	12	ELFH12110
			80 (3.14)	16	ELFH16110
			100 (3.93)	20	ELFH20110
			120 (4.72)	24	ELFH24110
		ELFH Vertical – closed header, 5.0mm (.197") pitch, Black.	10 (0.39)	2	ELFH02150
			15 (0.59)	3	ELFH03150
			20 (0.78)	4	ELFH04150
			25 (0.98)	5	ELFH05150
			30 (1.18)	6	ELFH06150
			40 (1.57)	8	ELFH08150
			50 (1.96)	10	ELFH10150
			60 (2.36)	12	ELFH12150
			80 (3.14)	16	ELFH16150
			100 (3.93)	20	ELFH20150
			120 (4.72)	24	ELFH24150
		ELFA Horizontal header, 2-Tier aligned, 5.0mm (.197") pitch, Black.	12 (0.47)	4	ELFA04110
			17 (0.66)	6	ELFA06110
			22 (0.86)	8	ELFA08110
			27 (1.06)	10	ELFA10110
			32 (1.26)	12	ELFA12110
			42 (1.65)	16	ELFA16110
			52 (2.04)	20	ELFA20110
			62 (2.44)	24	ELFA24110
		ELFA Vertical header, 2-Tier aligned, 5.0mm (.197") pitch, Black.	12 (0.47)	4	ELFA04150
			17 (0.66)	6	ELFA06150
			22 (0.86)	8	ELFA08150
			27 (1.06)	10	ELFA10150
			32 (1.26)	12	ELFA12150
			42 (1.65)	16	ELFA16150
			52 (2.04)	20	ELFA20150
			62 (2.44)	24	ELFA24150

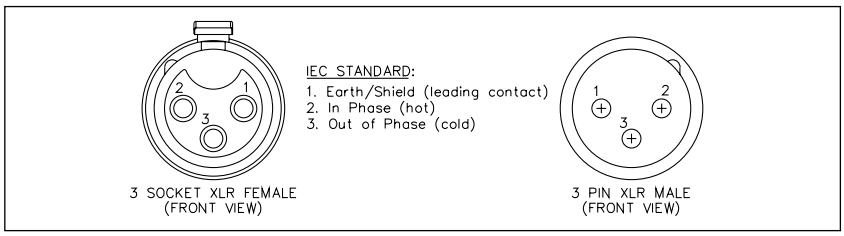
STANDARD DATA ELF SERIES

		VALUE			
GENERAL CHARACTERISTICS	Series	ELFP	ELFF	ELFH	ELFA
	Termination	Screw		PCB	
	Wire Gauge	12-26 AWG		Not Applicable	
	Wire Strip Length	7.87mm (.310)	7.87mm (.310) (14-26 AWG) 12.44mm (.490) (12 AWG)	Not Applicable	
	Hole Diameter	Not Applicable		1.40mm (.055) min.	
ELECTRICAL CHARACTERISTICS	Operating Voltage	300V			
	Dielectric Withstanding	<3000V			
	Current Carrying Capacity	15A			
	Insulation Resistance	$>10^5$ MΩ			
CLIMATIC CHARACTERISTICS	Operating Temperature	105°C (221°F) max			
MECHANICAL CHARACTERISTICS	Wire Pullout Force	Per UL 486E, Section 14		Not Applicable	
	Recommended Tightening Torque	0.79N-m (7lb-in.)		Not Applicable	
MATERIALS	Housing (Black)	PPO, UL 94V-0		PBT, UL 94V-0	PA 46, UL 94V-0
	Contact / Finish	Copper Alloy / Tin-Lead			
	Clamp Screw / Finish	Steel / Nickel		Not Applicable	
	Wire Clamp / Finish	Copper Alloy / Nickel		Not Applicable	

Amphenol

CONNECTOR WIRING INFORMATION

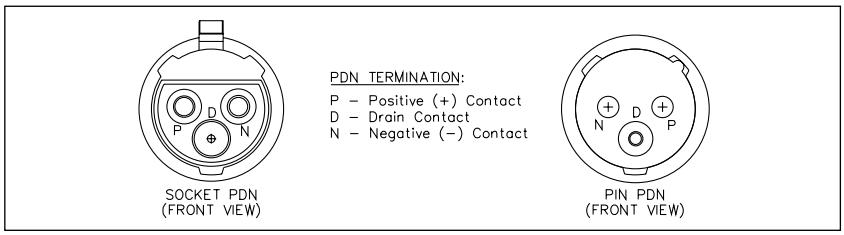
XLR (Microphone / Patch Cables)



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.

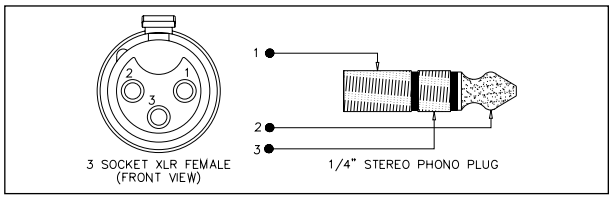
PDN (Speaker Cables)



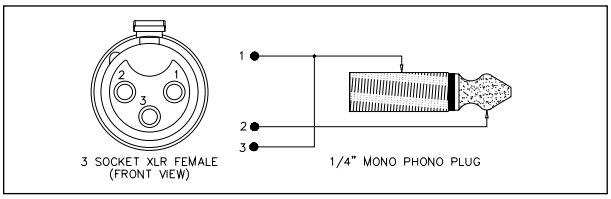
The PDN stands for Positive, Drain and Negative. P pin is used for the Positive (+) line and the N pin is for the return line. D pin is a leading contact that engages at interconnection, before the major contacts. If applicable, solder the cable screen to this contact.

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

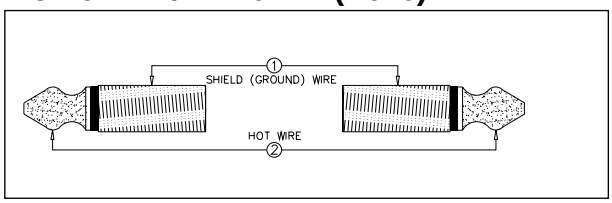
MICROPHONE CABLE - BALANCED



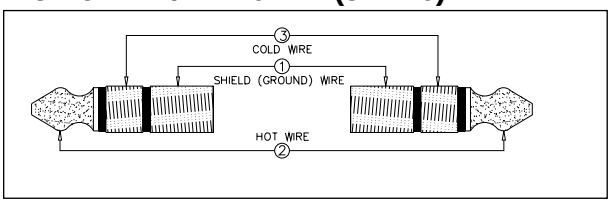
MICROPHONE CABLE - UNBALANCED



INSTRUMENT / LINE CABLE (MONO)



INSTRUMENT / LINE CABLE (STEREO)



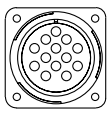
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CONNECTOR WIRING INFORMATION

Multipin Cables

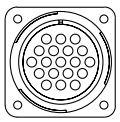
MP-41 Series
4 Ch –13 pin

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



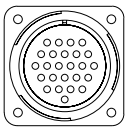
MP-41 Series
6 Ch – 19 pin

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



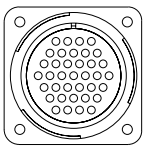
MP-41 Series
8 Ch –25 pin

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		



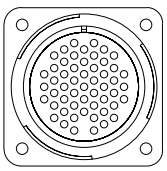
MP-41 Series
12 Ch–37 pin

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		



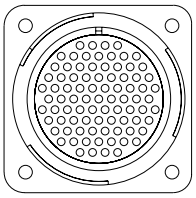
MP-41 Series
16 Ch–54 pin

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		



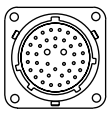
MP-41 Series
28 Ch–85 pin

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		



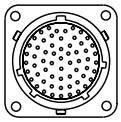
MP-62 Series
12 Ch–39 pin

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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