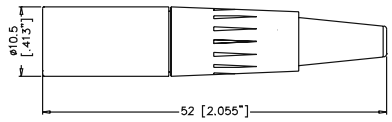
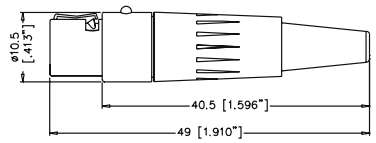
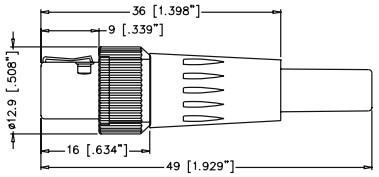
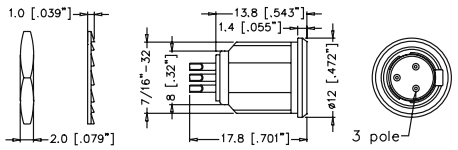
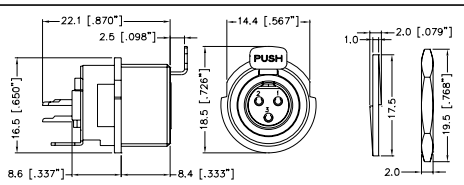
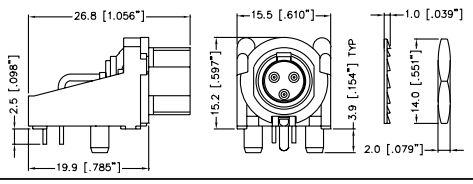
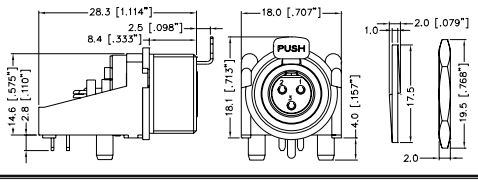
XLR Connectors

G-Type Miniature XLR Connectors

Features:

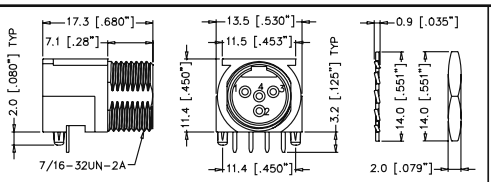
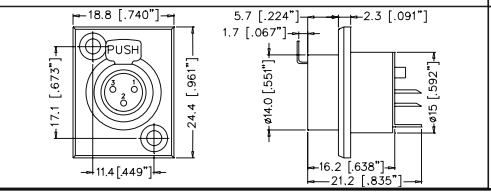
- Miniature version of the standard XLR series
- Diecast or Precision machined metal housings
- Metal cable clamp
- Precision machined pin contacts
- Stamped socket contacts
- Solder cup or Printed Circuit board contacts
- Available in 3, 4, 5 or 6 contacts
- Postive latchlock
- Flexible cable grommet

Part Number Breakdown: Page 48 **Specifications: Page 49**
PCB Footprints: Page 50 **Panel Cutouts: Page 50**

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

XLR Connectors

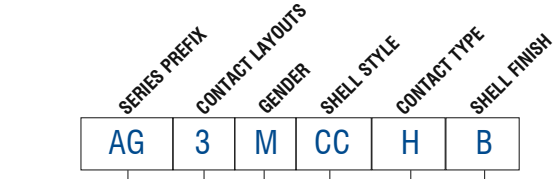
G-Type Miniature XLR Connectors

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

PART NUMBER BREAKDOWN

G TYPE CONNECTORS

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



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

STANDARD DATA G TYPE

			VALUE			
GENERAL CHARACTERISTICS	Number of Contacts		3	4	5	6
	Termination		Printed Circuit Board (PCB) or Solder Bucket			
	Max. Wire Gauge - Stranded Wire		AWG 24 - 0.5mm²			AWG 28 - 0.38mm²
	Flammability		UL94V-HB			
	Environmental		Complies with EU RoHS 2 Directive 2011/65/EU			
ELECTRICAL CHARACTERISTICS	Current Carrying Capacity		5A	5A	4A	1.2A
	Typical Contact Resistance		≤10mΩ			
	Insulation resistance (initial) After Damp Heat Test		≥510MΩ ≥10MΩ			
	Dielectric Strength		1000 V dc			250 V dc
CLIMATIC CHARACTERISTICS	Protection Class		IP00			
	Operating Temperature		-30˚C to +80˚C (-20F - +176F)			
MECHANICAL CHARACTERISTICS	Insertion Spring Separating Force		≥20N			
	Cable O.D.	Standard	2mm to 3.5mm (0.078" to 0.137")			
		Large clamp / boot (Option "J")	3mm to 5mm (0.118" to 0.196")			
	Mechanical Operations		5000 mating cycles			2000 mating cycles
	Weight		13.5g (0.029lb)			
MATERIALS	Connector Shell		Bronze & Zinc			
	Connector Shell Finish		Nickel Plated			
	Insulators		PPS - Black			
	Male Contact		Material - Brass C3604 Plating - Gold over Silver Plated			
	Female Contact		Material - Brass C5210P Plating - Gold over Silver Plated			
	Latch Lock and Spring		SUS (AISI - 301) - Nickel Plated			
	Adaptor		PPS - Black			
	Cable Clamp		Bronze - Nickel Plated			
	Boot/Backshell		ABS - Black			
	Grommet		PU - Black			

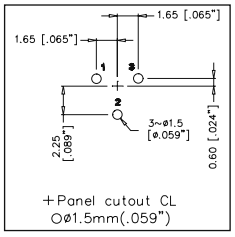
Rev 5 - 06/2017

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

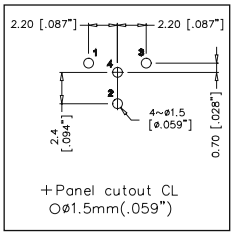
XLR Connectors

G-Type Miniature XLR Connectors

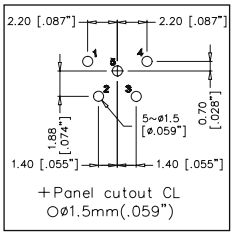
PANEL CUTOUTS
- CONNECTOR SIDE OF PCB



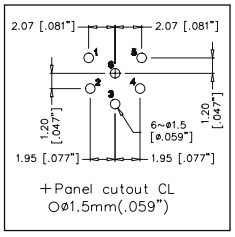
AG3MCC



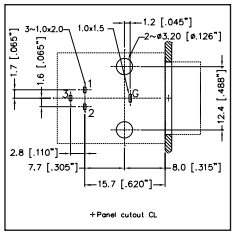
AG4MCC



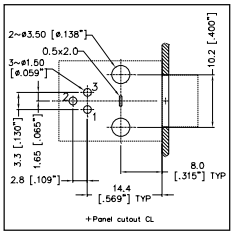
AG5MCC



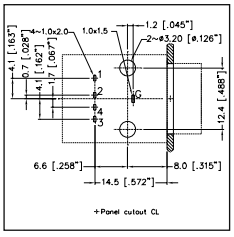
AG6MCC



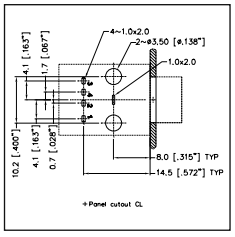
AG3FCCH



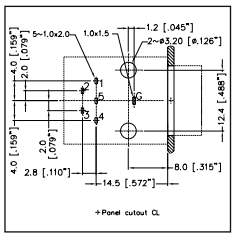
AG3MCCH



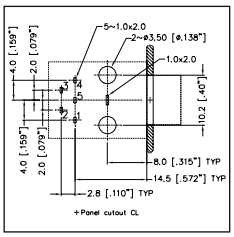
AG4FCCH



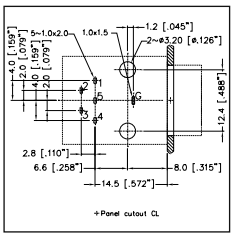
AG4MCCH



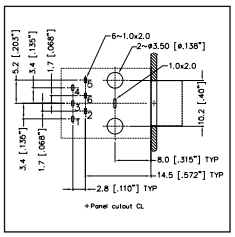
AG5FCCH



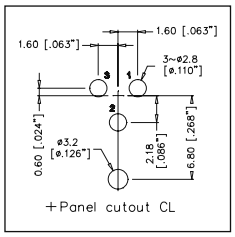
AG5MCCH



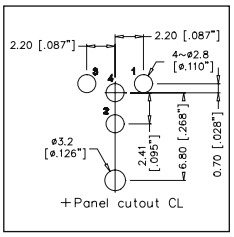
AG6FCCH



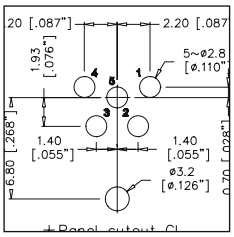
AG6MCCH



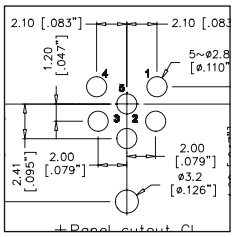
AG3FCRV



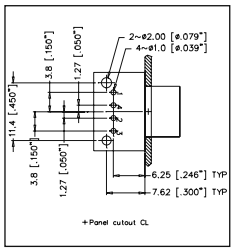
AG4FCRV



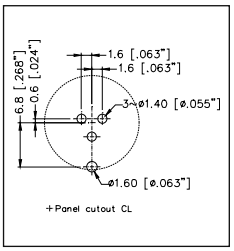
AG5FCRV



AG6FCRV

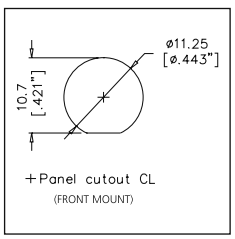


AG4MPCH

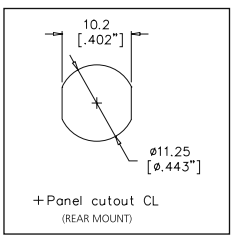


AG3FCE

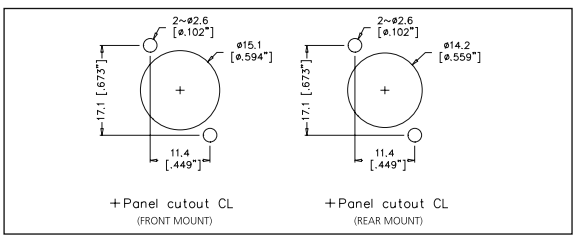
PANEL CUTOUTS
- FRONT VIEW



AG3MCC
AG4MCC
AG5MCC
AG6MCC



AG3MCCH
AG4MCCH
AG5MCCH
AG6MCCH
AG4MPCH



AG3FCRV
AG4FCRV
AG5FCRV
AG6FCRV

PRODUCT SAFETY INFORMATION

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

1. Material Content and Physical Form

Electrical connectors do not usually contain hazardous materials. They contain conducting and non-conducting materials. Shells are manufactured in metal and plastic. Insulators can be formed in either natural rubber, synthetic rubber, plastic or glass insulating materials. Contact materials vary with the type of connector and its application. They are usually manufactured from either copper alloys, nickel, alumel, chromel or steel. In special applications, other alloys may be specified.

2. Fire Characteristics and Electric Shock Hazard

There is no fire hazard when the connector is correctly wired and used within the specified parameters. Incorrect wiring or assembly of the connector or careless use of metal tools or conductive fluids, or transit damage to any of the component parts may cause electric shock or burns. Live circuits must not be broken by separating mated connectors as this may cause arcing, ionisation and burning. Heat dissipation is greater at maximum resistance in a circuit. Hot spots may occur when resistance is raised locally by damage, e.g. cracked or deformed contacts, or broken strands of wire. Local overheating may also result from the use of the incorrect application tools or from poor quality soldering.

Overheating may occur if the ratings in the Data Sheets are exceeded and can cause breakdown of insulation and hence electric shock.

If heating is allowed to continue it intensifies by further increasing the local resistance through loss of temper or spring contact, formation of oxide film on contacts and wires, and leakage currents through carbonisation of insulation and tracking points. Fire can then result in the presence of combustible materials and this may release noxious fumes. Overheating may not be visually apparent. Burns may result from touching overheated components.

3. Handling

Care must be taken to avoid damage to any component parts of electrical connectors during installation and use. Although there are normally no sharp edges, care must be taken when handling certain components to avoid injury to fingers. Electrical connectors may be damaged in transit to customers, and damage may result in creation of hazards. Products should therefore be examined prior to installation/use and rejected if found to be damaged.

4. Disposal

Incineration of certain materials may release noxious or even toxic fumes.

5. Application

Connectors with exposed contacts should not be selected for use on the current supply side of an electrical circuit, because an electric shock could result from touching exposed contacts of an unmated connector. Voltages in excess of 30 V.A.C. or 42.5 V.D.C. are potentially hazardous and care should be taken to ensure that such voltages cannot be transmitted in any way to exposed metal parts of the connector body. The connector and wiring should be checked, before making live, to have no damage to metal parts or insulators, no solder blobs, loose strands, conducting lubricants, swarf, or any other undesired conducting particles. Circuit resistance and continuity check should be made to make certain that there are no low resistance joints or spurious conducting paths. Always use the correct application tools as specified in the Data Sheets. Do not permit untrained personnel to wire, assemble or tamper with connectors. For operation voltage please see appropriate national regulations.

Important General Information

A) Air and creepage paths / Operating voltage.

The admissible operating voltages depend on the individual applications and the valid national and other applicable safety regulations. For this reason the air and creepage path data are only reference values. Observe reduction of air and creepage paths due to PC board and/or harnessing.

B) Other important information

Amphenol Australia Pty Ltd continuously endeavours to improve its products. Therefore, products may deviate from the description, technical data and shape as shown in product brochures.

C) Assembly instructions

If applicable, special assembly instructions have been included in or on the connector packaging. See also separate instructions in product brochures.

DISTRIBUTED BY

International Headquarters

Amphenol Australia Pty Ltd

22 Industry Blvd.
Carrum Downs VIC 3201 Australia

Phone: +61 3 8796 8888
Fax: +61 3 8796 8801
Email: info@amphenol.com.au

North America

Amphenol Audio Representative Office

44724 Morley Drive
Clinton Township, MI, USA 48036

Phone: +1 720 508 3443
Fax: +1 720 508 3443
Email: sales@amphenolaudio.com

Europe

Amphenol Audio Representative Office

August-Haeusser – Str. 10
74080 Heilbronn Germany

Phone: +49 71 31 9 29 0
Fax: +49 71 31 9 29 486
Email: industrial@amphenol.de

Asia Pacific

Amphenol Australia (China Operations)

3rd floor, Building 9 Shan Cheng Industrial Zone,
Zhou Shi Road, Shi Yan Street, Bao An District,
Shen Zhen, China 518108

Phone: (+86) 755 8173 8000
Fax: (+86) 755 8173 8180
Email: apcd@amphenol.com.au

www.amphenolaudio.com.au

01/02/2018

Catalogue Part Number: CAT-AUDIO-01