



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

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.

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.

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)

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.



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 30

Specifications: Page 31

PCB Footprints: Page 32

Panel Cutouts: Page 32

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		<p>SOLDER CONTACTS: 5.5 [.217\"/> </p>	<p>XLR 3 pole male, D Flange, Machined contacts, Nickel Finish</p>	Standard	AC3MMDZ
				Gold Plated Contacts	AC3MMDZ-AU
				Vertical PCB	AC3MMDZV
				Bulk Pack	AC3MMDZ BULK
		<p>SOLDER CONTACTS: 5.5 [.217\"/> </p>	<p>XLR 3 pole male, D Flange, Machined contacts, Black Finish</p>	Standard	AC3MMDZB
				Gold Plated Contacts	AC3MMDZB-AU
				Vertical PCB	AC3MMDZVB
				Bulk Pack	AC3MMDZB BULK
		<p>SOLDER CONTACTS: 5.5 [.217\"/> </p>	<p>XLR 3 pole male, D Flange, Stamped contacts, Nickel Finish</p>	Standard	AC3MDZ
				Gold Plated Contacts	AC3MDZ-AU
				Bulk Pack	AC3MDZ BULK
		<p>SOLDER CONTACTS: 5.5 [.217\"/> </p>	<p>XLR 3 pole male, D Flange, Stamped contacts, Black Finish</p>	Standard	AC3MDZB
				Gold Plated Contacts	AC3MDZB-AU
				Bulk Pack	AC3MDZB BULK
		<p>SOLDER CONTACTS: 6.5 [.256\"/> </p>	<p>XLR 3 pole female, D Flange, Stamped contacts, Nickel Finish</p>	Standard	AC3FDZ
				Gold Plated Contacts	AC3FDZ-AU
				Bulk Pack	AC3FDZ BULK
		<p>SOLDER CONTACTS: 5.5 [.217\"/> </p>	<p>XLR 3 pole female, D Flange, Stamped contacts, Black Finish</p>	Standard	AC3FDZB
				Gold Plated Contacts	AC3FDZB-AU
				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, Machined contacts, Nickel Finish	Standard	AC4FDZ
				Gold Plated Contacts	AC4FDZ-AU
				Vertical PCB	AC4FDZV
				Bulk Pack	AC4FDZ BULK
			XLR 4 pole female, D Flange, Machined contacts, Black Finish	Standard	AC4FDZB
				Gold Plated Contacts	AC4FDZB-AU
				Vertical PCB	AC4FDZVB
				Bulk Pack	AC4FDZB BULK
			XLR 5 pole male, D Flange, Machined contacts, Nickel Finish	Standard	AC5MDZ
				Gold Plated Contacts	AC5MDZ-AU
				Vertical PCB	AC5MDZV
				Bulk Pack	AC5MDZ BULK
			XLR 5 pole male, D Flange, Machined contacts, Black Finish	Standard	AC5MDZB
				Gold Plated Contacts	AC5MDZB-AU
				Vertical PCB	AC5MDZVB
				Bulk Pack	AC5MDZB BULK
			XLR 5 pole female, D Flange, Machined contacts, Nickel Finish	Standard	AC5FDZ
				Gold Plated Contacts	AC5FDZ-AU
				Vertical PCB	AC5FDZV
				Bulk Pack	AC5FDZ BULK
			XLR 5 pole female, D Flange, Machined contacts, Black Finish	Standard	AC5FDZB
				Gold Plated Contacts	AC5FDZB-AU
				Vertical PCB	AC5FDZVB
				Bulk Pack	AC5FDZB BULK



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

METAL P TYPE FLANGE - SOLDER AND PCB



Features:


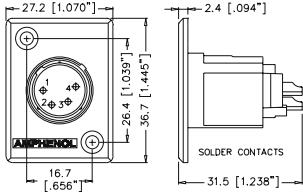

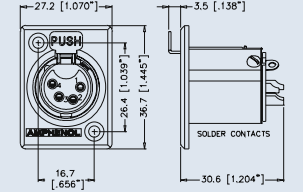

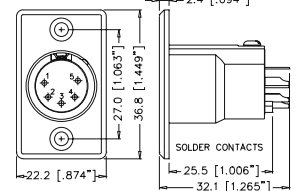

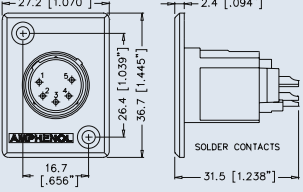

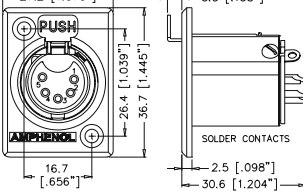

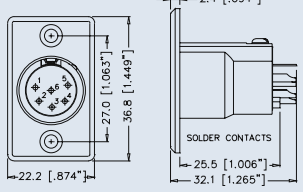

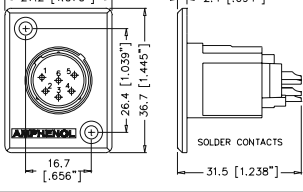

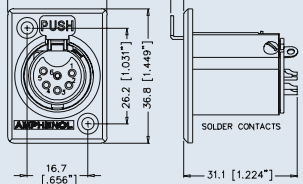
- Zinc Diecast shell.
- The P size housing is the original wide flange front mounting XLR connector. PN is the original narrow, front mounting male connector.
- Solder Bucket connections.
- Precision Machined or Stamped contacts (3 pin only).
- Leading first mate last break socket contact.
- Positive latch lock system.


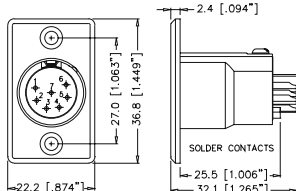

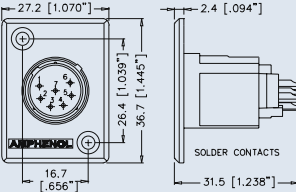

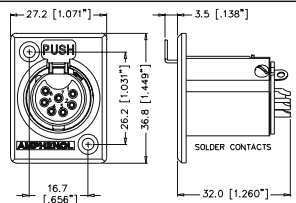
Options: Stamped contacts (3 contact only), Gold plated contacts, Black Finish, Non-Latching (Female only), Bulk Pack.

Part Number Breakdown: [Page 30](#) **Specifications:** [Page 31](#)
PCB Footprints: [Page 32](#) **Panel Cutouts:** [Page 32](#)



PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			XLR 3 pole male, Narrow flange, Machined contacts	Standard Black Finish	AC3MMPNZ AC3MMPNZB
			XLR 3 pole male, Narrow flange, Stamped contacts,	Standard Black Finish	AC3MPNZ AC3MPNZB
			XLR 3 pole male, Wide flange, Machined contacts	Standard Black Finish	AC3MMP AC3MMPB
			XLR 3 pole male, Wide flange, Stamped contacts	Standard Black Finish	AC3MP AC3MPB
			XLR 3 pole female, Wide flange, Stamped contacts	Standard Black Finish	AC3FPZ AC3FPZB
			XLR 4 pole male, Narrow flange, Machined contacts	Standard Black Finish	AC4MPNZ AC4MPNZB

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		27.2 [1.070"] 2.4 [.094"] 26.4 [1.039"] 36.7 [1.445"] 16.7 [.656"] 31.5 [1.238"]	XLR 4 pole male, Wide flange, Machined contacts	Standard Black Finish	AC4MP AC4MPB
		27.2 [1.070"] 3.5 [.138"] 26.4 [1.039"] 36.7 [1.445"] 16.7 [.656"] 30.6 [1.204"]	XLR 4 pole female, Wide flange, Machined contacts	Standard Black Finish	AC4FPZ AC4FPZB
		2.4 [.094"] 27.0 [1.063"] 36.8 [1.449"] 22.2 [.874"] 25.5 [1.006"] 32.1 [1.265"]	XLR 5 pole male, Narrow flange, Machined contacts	Standard Black Finish	AC5MPNZ AC5MPNZB
		27.2 [1.070"] 2.4 [.094"] 26.4 [1.039"] 36.7 [1.445"] 16.7 [.656"] 31.5 [1.238"]	XLR 5 pole male, Wide flange, Machined contacts	Standard Black Finish	AC5MP AC5MPB
		27.2 [1.070"] 3.5 [.138"] 26.4 [1.039"] 36.7 [1.445"] 16.7 [.656"] 30.6 [1.204"]	XLR 5 pole female, Wide flange, Machined contacts	Standard Black Finish	AC5FPZ AC5FPZB
		2.4 [.094"] 27.0 [1.063"] 36.8 [1.449"] 22.2 [.874"] 25.5 [1.006"] 32.1 [1.265"]	XLR 6A pole male, Narrow flange, Machined contacts	Standard Black Finish	AC6AMPNZ AC6AMPNZB
		27.2 [1.070"] 2.4 [.094"] 26.4 [1.039"] 36.7 [1.445"] 16.7 [.656"] 31.5 [1.238"]	XLR 6A pole male, Wide flange, Machined contacts	Standard Black Finish	AC6AMP AC6AMPB
		27.2 [1.071"] 3.5 [.138"] 26.2 [1.031"] 36.8 [1.449"] 16.7 [.656"] 31.1 [1.224"]	XLR 6A pole female, Wide flange, Machined contacts	Standard Black Finish	AC6AFPZ AC6AFPZB

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		22.2 [0.874"] 27.0 [1.063"] 36.8 [1.449"] 2.4 [0.094"] 25.5 [1.006"] 32.1 [1.265"]	XLR 7 pole male, Narrow flange, Gold Plated Machined contacts	Standard Black Finish	AC7MPNZ AC7MPNZB
		27.2 [1.070"] 26.4 [1.039"] 36.7 [1.445"] 16.7 [0.656"] 2.4 [0.094"] 31.5 [1.238"]	XLR 7 pole male, Wide flange, Gold Plated Machined contacts	Standard Black Finish	AC7MP AC7MPB
		27.2 [1.071"] 26.2 [1.031"] 36.8 [1.449"] 16.7 [0.656"] 3.5 [0.138"] 32.0 [1.260"]	XLR 7 pole female, Wide flange, Gold Plated Machined contacts	Standard Black Finish	AC7FPZ AC7FPZB

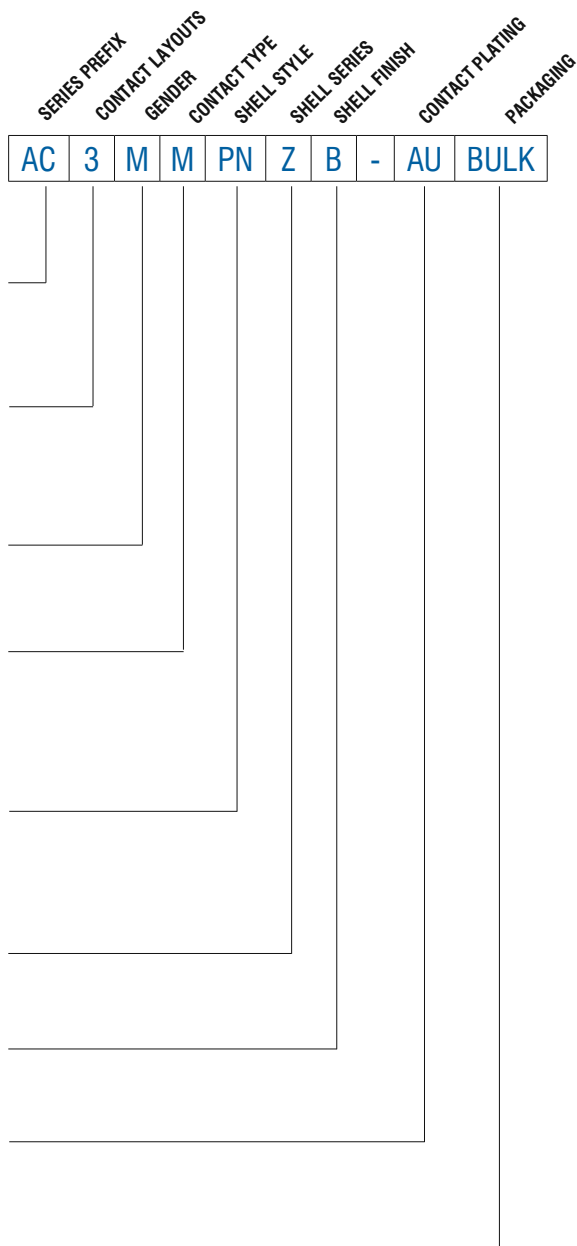


PART NUMBER BREAKDOWN

METAL TYPE FLANGE

E. G. **AC3MMPNZVB-AU BULK**
AC (Series Prefix), **3** contacts, **Male**, **Machined Contacts**, **PN** (Narrow Flange), **Z** (Metal Chassis Series), **Black 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 CONTACTS¹	Blank	=	Stamped Contacts
	M	=	Machined Contacts (Applicable 3 male pin contacts only)
SHELL STYLE	D	=	Small Flange (front or rear mounting)
	P	=	Large Shell with Wide Flange
	PN	=	Large Shell with Narrow Flange (male only)
SHELL SERIES	Blank	=	Male P Shell Style Only
	Z	=	Metal Chassis Series
SHELL FINISH²	Blank	=	Nickel Plated Finish
	B	=	Black Polyester Finish
CONTACT PLATING³	Blank	=	Standard Plating (Silver or Tin - refer to Standard Data)
	AU	=	Gold Plated
PACKAGING	Blank	=	Individual Bags
	BULK	=	Bulk Packed



Note:

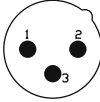
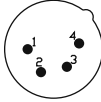
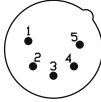
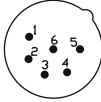
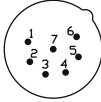
¹ 4 - 7 contact connectors have machined contacts and grounding as standard. They are not available in stamped contacts.

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

³ 7 Contact is gold plated as standard.

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

STANDARD DATA AC SERIES CHASSIS - METAL “Z”

		VALUE				
GENERAL CHARACTERISTICS	Number of contacts	3	4	5	6A	7
	Contact Arrangement (Front view of pin inserts)					
	Termination	Solder Bucket / Printed Circuit Board (PCB)				
	Max. Wire Gauge - Stranded wire:					
	Solder	14AWG	16AWG	18AWG	18AWG	20AWG
	Printed Circuit Board - PCB	N/A	N/A	N/A	N/A	N/A
Flammability rating of plastics	UL94V-0					
Environmental	Complies with EU RoHS 2 Directive 2011/65/EU					
ELECTRICAL CHARACTERISTICS	Service Voltage RMS	133V ¹⁾				
	Test Voltage AC RMS	1400V				
	Current carrying capacity:					
	Solder	15A	10A	7.5A	7.5A	5A
	Printed Circuit Board (PCB)	15A	10A	7.5A	7.5A	5A
	Typical Contact Resistance	≤3mΩ				
Insulation Resistance	≥1000MΩ					
CLIMATIC CHARACTERISTICS	Protection Class	IP40				
	Operating Temperature	-25 °C to +75 °C (-13°F to +167°F)				
MECHANICAL CHARACTERISTICS	Weight - Metal ²⁾	31g (0.068lb)	32g (0.070lb)	33g (0.072lb)	33g (0.072lb)	33g (0.072lb)
	Mechanical Operations	1000 mating cycles				
MATERIALS	Connector Shell	Diecast Zinc Alloy				
	Shell Finish	Satin Nickel or Black Polyester				
	Insulators	UL94V-0 PBT Resin or Modified PPE Resin				
	Male Contact					
	Stamped Solder and PCB-(Material/Plating)	Phosphor Bronze / Silver or Gold (optional)				
	Machined Solder-(Material/Plating)	Brass / Silver or Gold (optional)				
	Female Contact					
Stamped Solder and PCB-(Material/Plating)	Phosphor Bronze / Tin or Gold (optional)					
Machined Solder-(Material/Plating)	Brass / Silver or Gold (Optional)					

Rev 3 - 03/2013

¹⁾ Not suitable for domestic applications above 50V

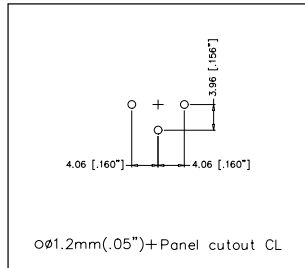
²⁾ Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.



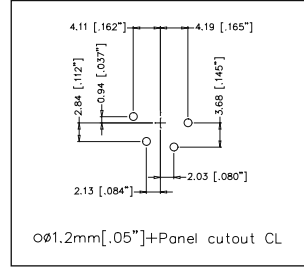
AC SERIES CHASSIS METAL "Z"

PCB FOOTPRINTS STRAIGHT (V)

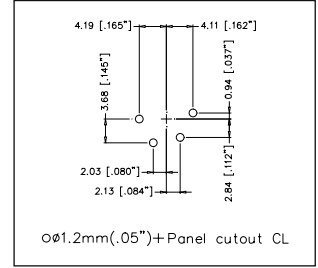
CONNECTOR SIDE OF PCB



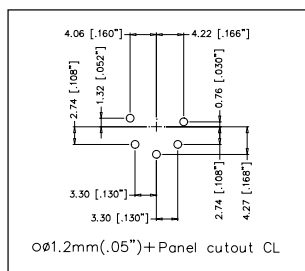
AC3MM*ZV



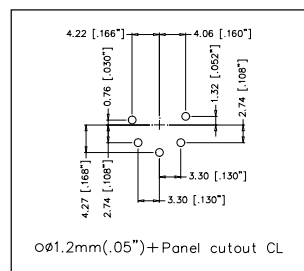
AC4F*ZV



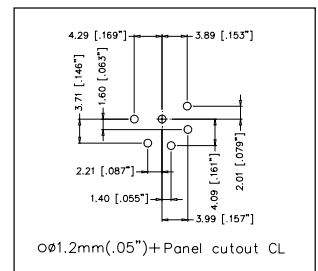
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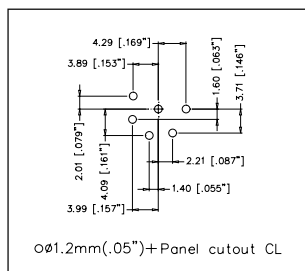
AC5F*ZV



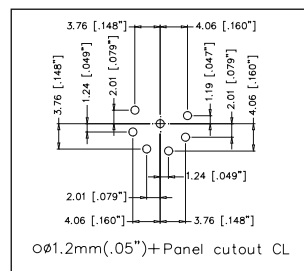
AC5M*ZV



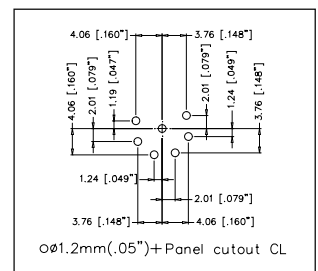
AC6AF*ZV



AC6AM*ZV



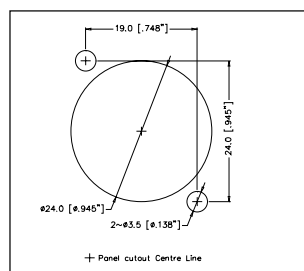
AC7F*ZV



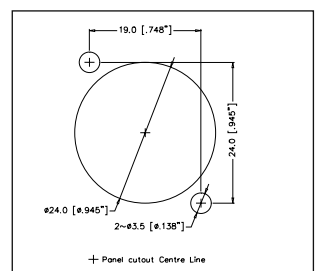
AC7M*ZV

PANEL CUTOUT DIMENSIONS

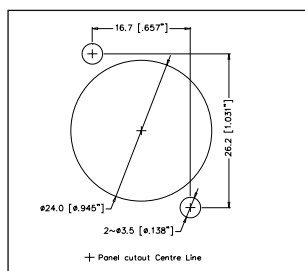
FRONT VIEW



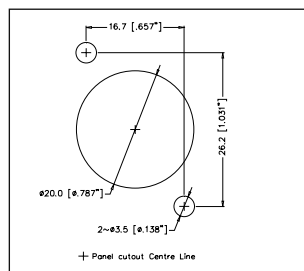
AC*FDZ



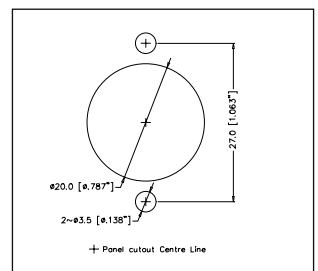
AC*MDZ



AC*FPZ



AC*MP



AC*MPNZ