



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.



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 Bulk Pack Non-Latching Non-Latching Bulk	AC3MDP AC3MDP BULK AC3MDPL AC3MDPL BULK
			XLR 3 pole female, D Flange, Thermoplastic shell, Solder Buckets	Standard Bulk Pack Non-Latching Non-Latching Bulk	AC3FDP AC3FDP BULK AC3FDPL AC3FDPL BULK
			XLR 3 pole male, D Flange, Thermoplastic shell, Horizontal PCB mount	Standard Bulk Pack Non-Latching Non-Latching Bulk	AC3MDPH AC3MDPH BULK AC3MDPHL AC3MDPHL BULK
			XLR 3 pole female, D Flange, Thermoplastic shell, Horizontal PCB mount	Standard Bulk Pack Non-Latching Non-Latching Bulk	AC3FDPH AC3FDPH BULK AC3FDPHL AC3FDPHL BULK
			XLR 3 pole male, D Flange, Thermoplastic shell, Vertical PCB mount	Standard Bulk Pack Non-Latching Non-Latching Bulk	AC3MDPV AC3MDPV BULK AC3MDPVL AC3MDPVL BULK
			XLR 3 pole female, D Flange, Thermoplastic shell, Vertical PCB mount	Standard Bulk Pack Non-Latching Non-Latching Bulk	AC3FDPV AC3FDPV BULK AC3FDPVL AC3FDPVL BULK

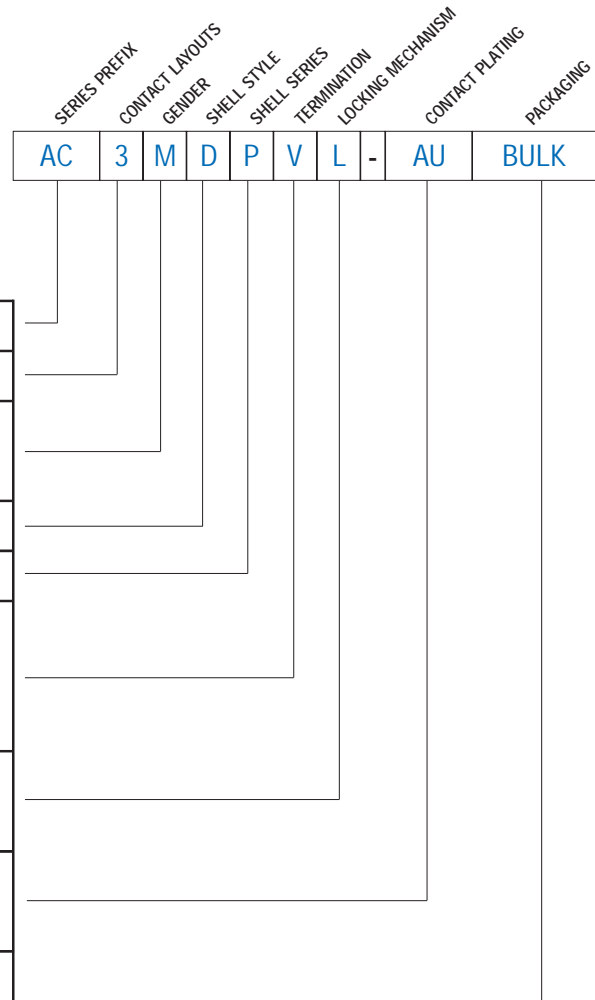


PART NUMBER BREAKDOWN

THERMOPLASTIC D TYPE FLANGE

E. G. **AC3MDPVL-AU BULK**
AC (Series Prefix), **3** contacts, **M**ale, **D** (Small Shell), **P** (Thermoplastic Chassis series)
 Vertical Printed Circuit Board, Latchless - **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





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 Bulk Pack Non-Latching Non-Latching Bulk	AC3MPP AC3MPP BULK AC3MPLL AC3MPLL BULK
			XLR 3 pole female, Wide Flange, Thermoplastic shell, Solder Buckets	Standard Bulk Pack Non-Latching Non-Latching Bulk	AC3FPP AC3FPP BULK AC3FPPL AC3FPPL BULK
			XLR 3 pole male, Wide Flange, Thermoplastic shell, Horizontal PCB mount	Standard Bulk Pack Non-Latching Non-Latching Bulk	AC3MPPH AC3MPPH BULK AC3MPPHL AC3MPPHL BULK
			XLR 3 pole female, Wide Flange, Thermoplastic shell, Horizontal PCB mount	Standard Bulk Pack Non-Latching Non-Latching Bulk	AC3FPPH AC3FPPH BULK AC3FPPHL AC3FPPHL BULK
			XLR 3 pole male, Wide Flange, Thermoplastic shell, Vertical PCB mount	Standard Bulk Pack Non-Latching Non-Latching Bulk	AC3MPPV AC3MPPV BULK AC3MPPVL AC3MPPVL BULK
			XLR 3 pole female, Wide Flange, Thermoplastic shell, Vertical PCB mount	Standard Bulk Pack Non-Latching Non-Latching Bulk	AC3FPPV AC3FPPV BULK AC3FPPVL AC3FPPVL BULK

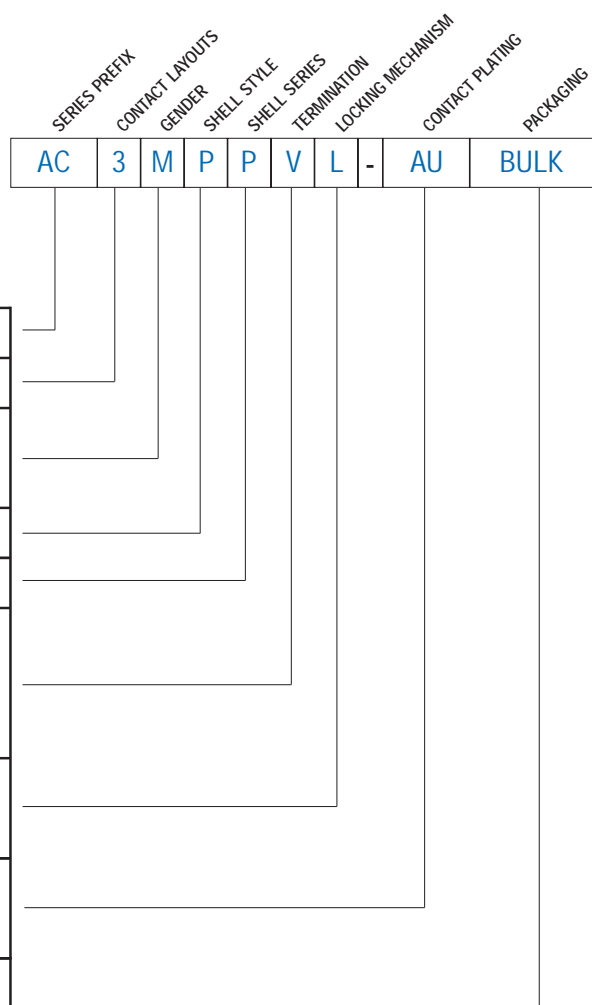
PART NUMBER BREAKDOWN

THERMOPLASTIC P TYPE FLANGE

E. G. AC3MPPVL-AU BULK

AC (Series Prefix), 3 contacts, M (Male), P (Large Shell), P (Thermoplastic Chassis series)
Vertical Printed Circuit Board, Latchless - 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





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. 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


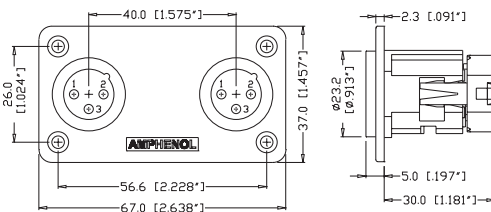

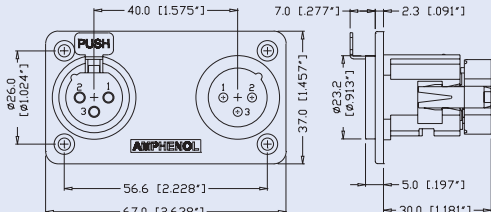

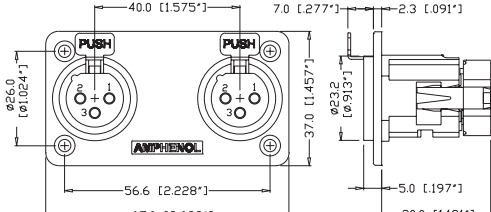

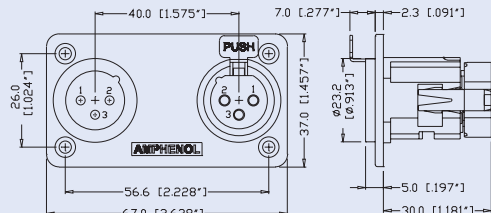
Specifications: Page 48

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	AC3FPPI
				Non-Latching Bulk	AC3FPPI 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	AC3F3FPFIL
			XLR 3 pole male + 3 pole female, Dual Flange, IDC contacts, Thermoplastic shell	Latching	AC3M3FPPI
				Non-Latching	AC3M3FPFIL

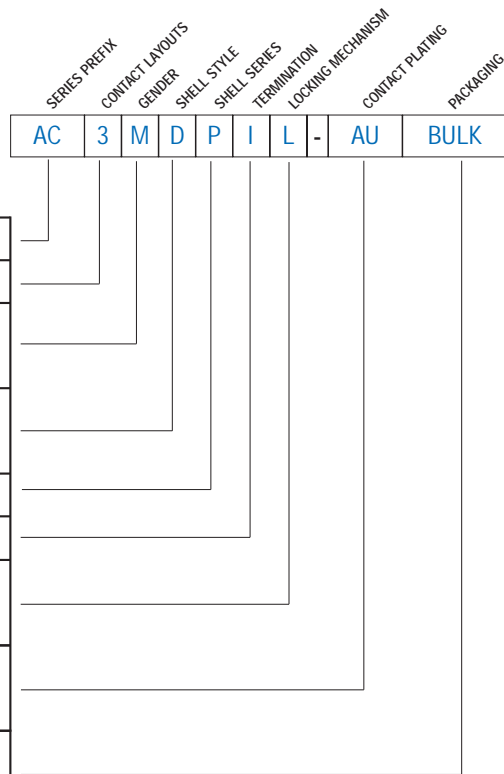


PART NUMBER BREAKDOWN

IDC D AND P THERMOPLASTIC CHASSIS TYPE

E. G. **AC3MDPIL-AU BULK**
 AC (series prefix), 3 contacts, Male, D Flange, Plastic Shell, IDC, Latchless,
 - 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

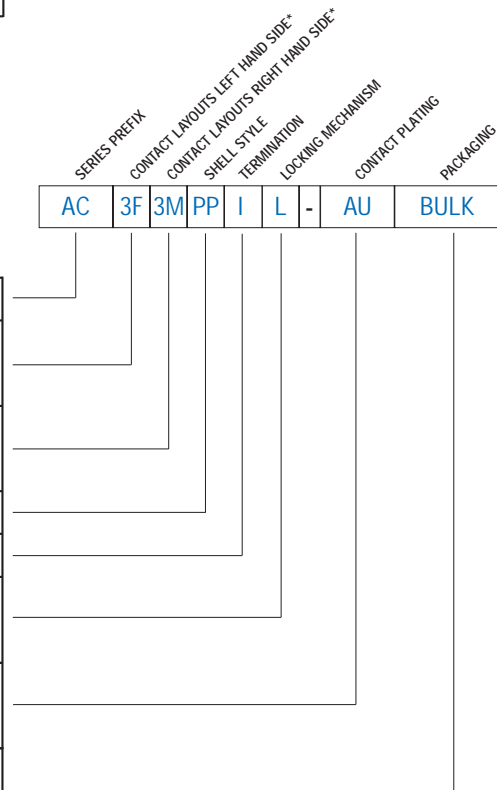


PART NUMBER BREAKDOWN

IDC DUAL THERMOPLASTIC CHASSIS TYPE

E. G. **AC3F3MPPIL-AU BULK**
 AC (series prefix), 3Female, 3Male, PP (Dual Thermoplastic Chassis series), IDC,
 Latchless, - AU (Gold Plated Contacts), Bulk Packaged.

SERIES PREFIX	AC	=	Series Prefix
CONTACT LAYOUT LEFT HAND SIDE³⁾	3F	=	3 Female Socket Contacts only
	3M	=	3 Male Pin Contacts only
CONTACT LAYOUT RIGHT HAND SIDE³⁾	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.



Features:


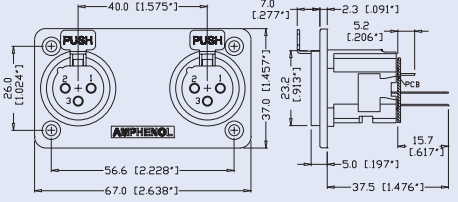

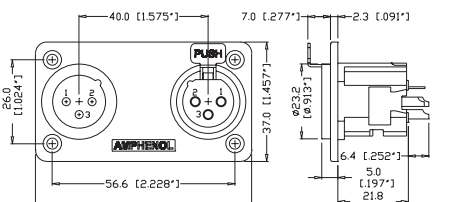

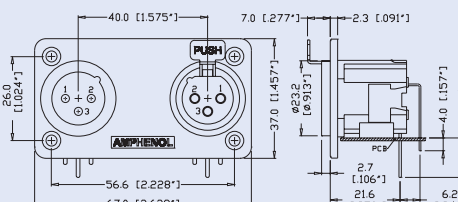

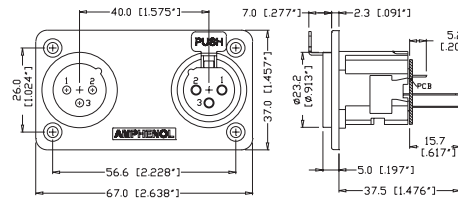

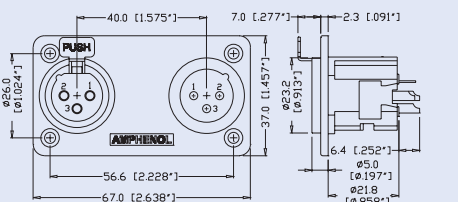

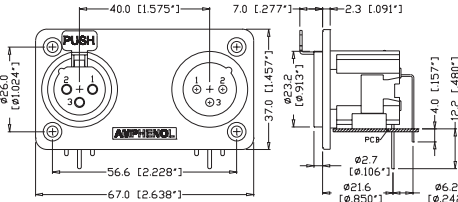

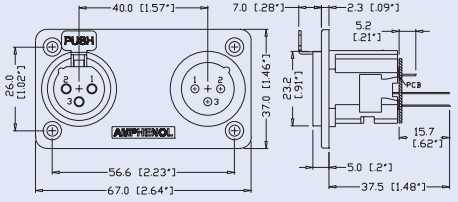
- Thermoplastic Shell.
- Dual Housing.
- Solder Bucket connections.
- Vertical or Horizontal PCB mounting.
- Stamped contacts.
- Leading first mate last break socket contact.
- Positive latch lock system.
- Coloured housings available as specials.

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
		400 [1.575"] 26.0 [1.024"] 56.6 [2.228"] 67.0 [2.638"] 37.0 [1.457"] 4-ø3.3 [ø1.311"] CSK 90° ID ø5.7 [ø.224"] 2.3 [0.091"] ø23.2 [ø.913"] 5.0 [0.197"] 6.2 [0.244"] 21.8 [0.858"]	XLR 3 pole male + 3 pole male, Dual Flange, Solder contacts	Latching Non-Latching	AC3M3MPP AC3M3MPPL
		400 [1.575"] 26.0 [1.024"] 56.6 [2.228"] 67.0 [2.638"] 37.0 [1.457"] 2.3 [0.091"] ø23.2 [ø.913"] 2.7 [0.106"] 21.6 [0.850"] 12.2 [0.480"]	XLR 3 pole male + 3 pole male, Dual Flange, Horizontal PCB mount	Latching Non-Latching	AC3M3MPPH AC3M3MPPHL
		400 [1.575"] 26.0 [1.024"] 56.6 [2.228"] 67.0 [2.638"] 37.0 [1.457"] 2.3 [0.091"] ø23.2 [ø.913"] 5.0 [0.197"] 21.8 [0.858"] 15.7 [0.617"]	XLR 3 pole male + 3 pole male, Dual Flange, Vertical PCB mount	Latching Non-Latching	AC3M3MPPV AC3M3MPPVL
		400 [1.575"] 26.0 [1.024"] 56.6 [2.228"] 67.0 [2.638"] 37.0 [1.457"] 7.0 [0.277"] 2.3 [0.091"] ø23.2 [ø.913"] ø6.4 [ø.252"] ø5.0 [ø.197"] ø21.8 [ø.858"]	XLR 3 pole female + 3 pole female, Dual Flange, Solder contacts	Latching Non-Latching	AC3F3FPP AC3F3FPPL
		400 [1.575"] 26.0 [1.024"] 56.6 [2.228"] 67.0 [2.638"] 37.0 [1.457"] 7.0 [0.277"] 2.3 [0.091"] ø23.2 [ø.913"] ø2.7 [ø.106"] ø21.6 [ø.850"] ø6.2 [ø.242"] 4.0 [0.157"] 12.2 [0.480"]	XLR 3 pole female + 3 pole female, Dual Flange, Horizontal PCB mount	Latching Non-Latching	AC3F3FPPH 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	AC3F3FPV
				Non-Latching	AC3F3FPVL
			XLR 3 pole male + 3 pole female, Dual Flange, Solder contacts	Standard	AC3M3FP
				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	AC3M3FPV
				Non-Latching	AC3M3FPVL
			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

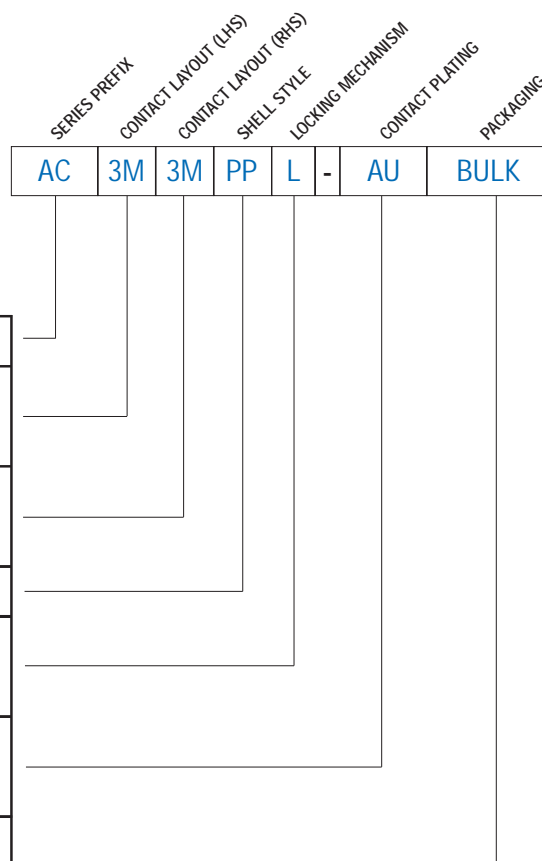


PART NUMBER BREAKDOWN

DUAL THERMOPLASTIC TYPE


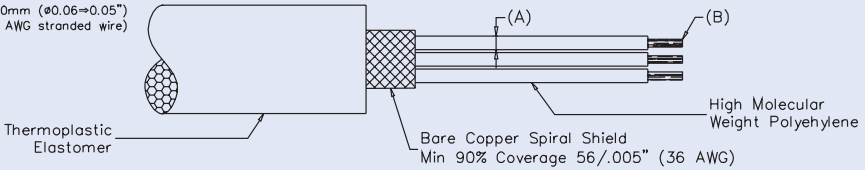
E. G. **AC3M3MPPL-AU BULK**
AC (Series Prefix), **3M**(LHS), **3M**(RHS), **PP** Dual Thermoplastic Chassis Series, Latchless, - **AU** (Gold Plated Contacts), **Bulk** Packaged.

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
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
Environmental	Complies with RoHS Directive 2002/95/EC	
ELECTRICAL CHARACTERISTICS	Service Voltage RMS	133V ¹⁾
	Test Voltage AC RMS	1400V
	Current carrying capacity:	
	IDC	1A
	Solder	15A
	Printed Circuit Board (PCB)	15A
	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 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 Stamped Solder and PCB-Material/Plating	Phosphor Bronze / Silver or Gold (optional) Phosphor Bronze / Silver or Gold (optional)
	Female Contact Stamped IDC-Material/Plating Stamped Solder and PCB-Material/Plating	Phosphor Bronze / Tin or Gold (optional) Phosphor Bronze / Tin or Gold (optional)
IDC RECOMMENDED CABLE DIMENSIONS	<p>A - OD ϕ1.50\Rightarrow1.30mm (ϕ0.06\Rightarrow0.05") B - 16/.005" (24 AWG stranded wire)</p>  <p>Thermoplastic Elastomer</p> <p>Bore Copper Spiral Shield Min 90% Coverage 56/.005" (36 AWG)</p> <p>High Molecular Weight Polyethylene</p>	

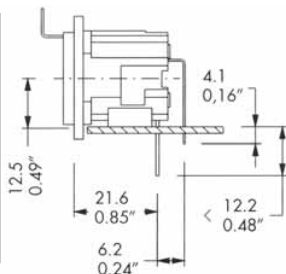
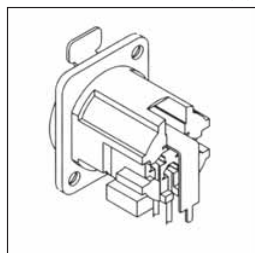
¹⁾ Not suitable for domestic applications above 50V

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

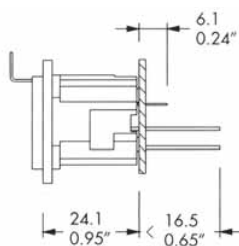
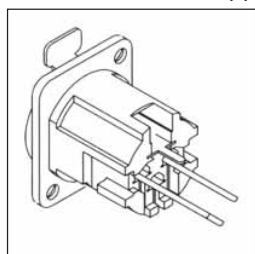
AC SERIES RECEPTACLES THERMOPLASTIC

MOUNTING INFORMATION

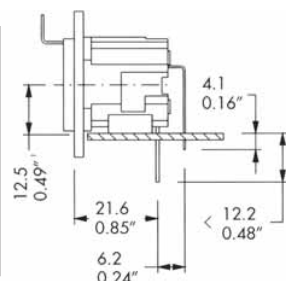
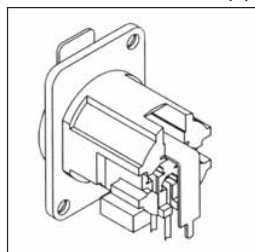
'D' SERIES
90° PCB (H)



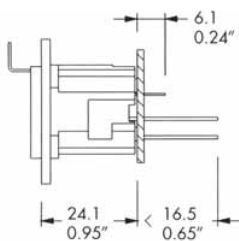
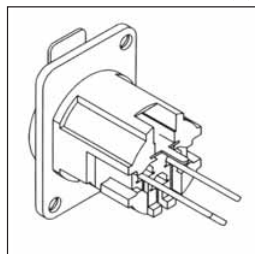
'D' SERIES
STRAIGHT PCB (V)



'P' SERIES
90° PCB (H)

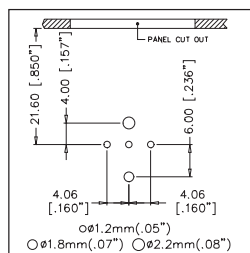


'P' SERIES
STRAIGHT PCB (V)

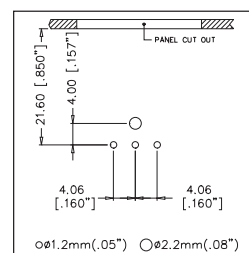


NOTE: For Dual Gang dimensions other than the mounting centres shown opposite please refer to the P Series above.

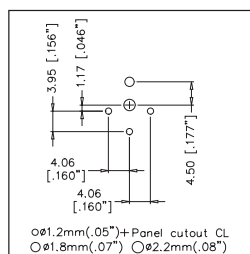
PCB FOOTPRINT - CONNECTOR SIDE OF PCB



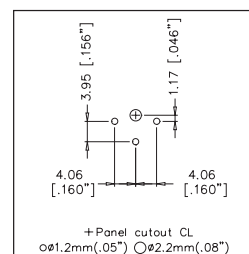
AC3FDPH / AC3FPPH



AC3MDPH / AC3MPPH

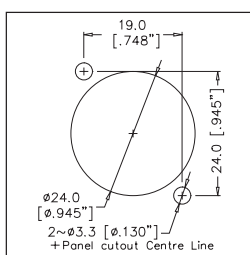


AC3FDPV / AC3FPV

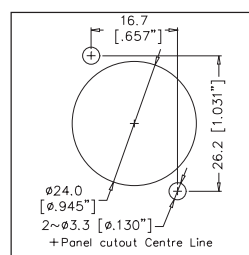


AC3MDPV / AC3MPV

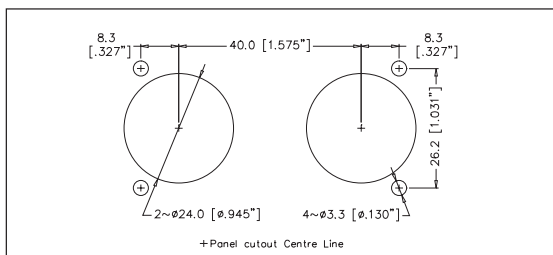
PANEL CUTOUT DIMENSIONS - FRONT VIEW



AC3FDP / AC3MDP



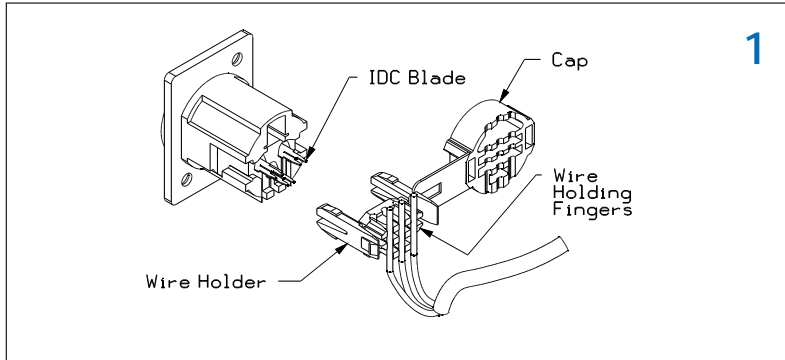
AC3FPP / AC3MPP



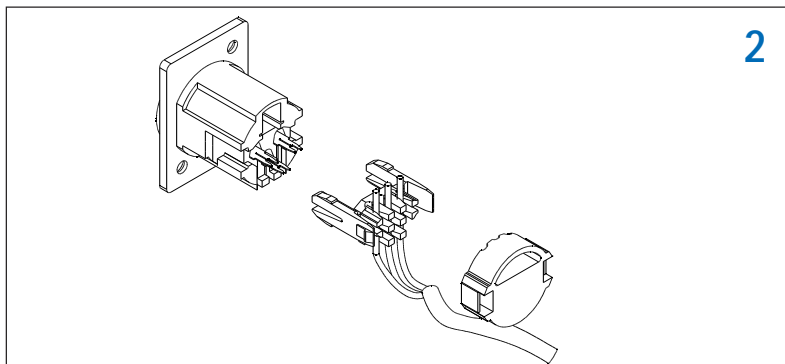
AC DUAL GANG



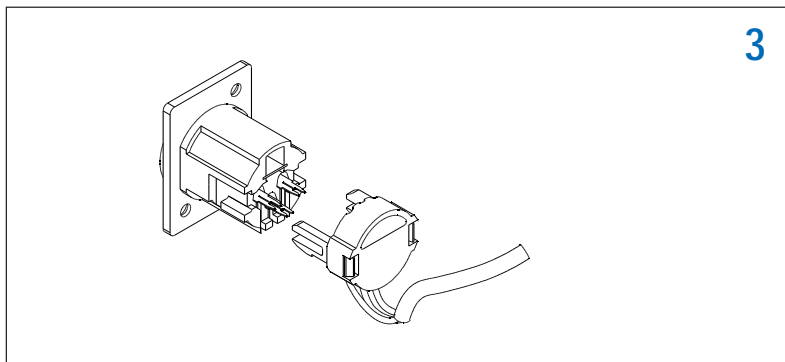
AC IDC SERIES CHASSIS ASSEMBLY INSTRUCTIONS



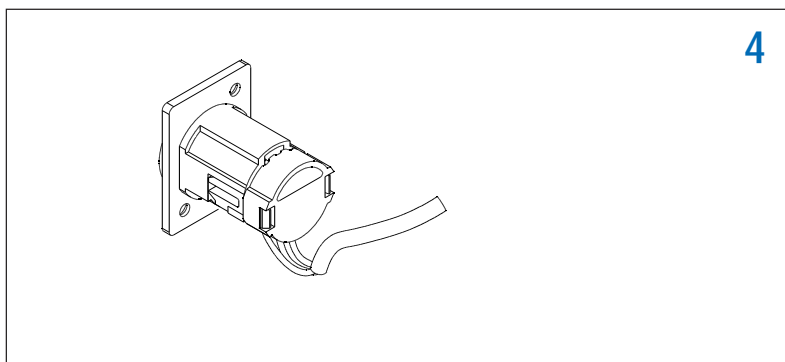
Lay the insulated conductors between the wire holding fingers. The fingers will retain the wire if it is inserted sufficiently.



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



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



Ensure wire holder snaps into the body.

