



This receptacle is manufactured from glass filled UL94V-0 PBT Resin, and provides a lower cost alternative to the 'Z' series metal shell. A positive latch lock system secures the mating cable connector. Manufactured to comply with IEC 268-12 and AES 14-1992 standards. CSA File Number 68598

Features

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

Options

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

Ordering Codes

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

AC SERIES XLR THERMOPLASTIC CHASSIS MOUNT CONNECTORS

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, Machined Contacts.

Specifications: 64
PCB Footprints: 65

Part Number Breakdown: 61
Panel Cutouts: 65

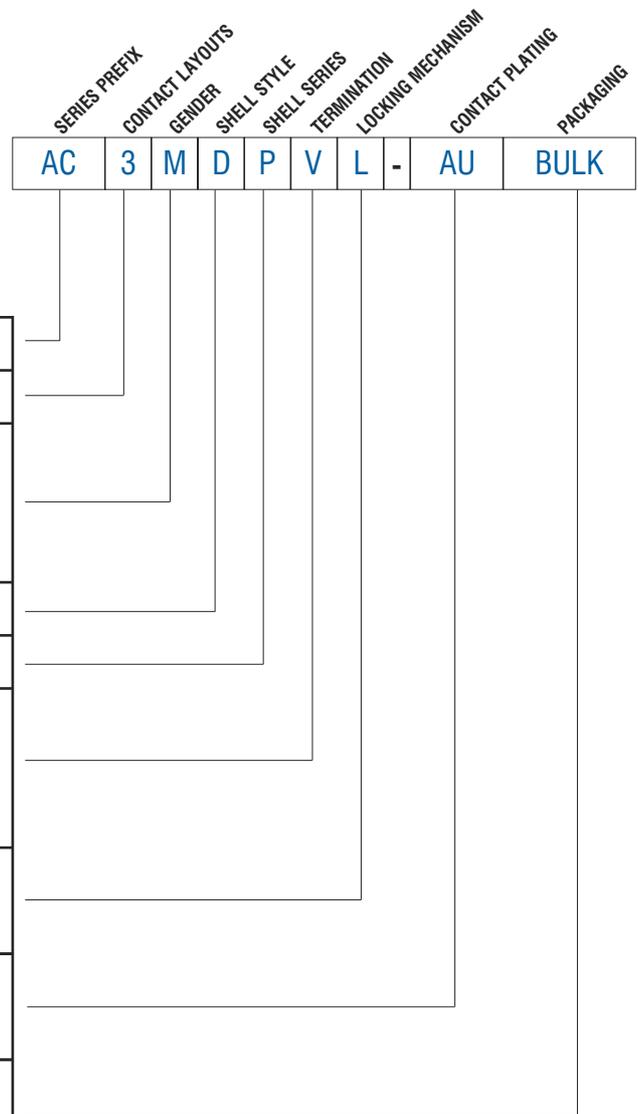
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			XLR 3 pole male, D Flange, Thermoplastic shell, Solder Buckets	Standard Bulk Pack Non-Latching Non-Latching Bulk	AC3MDP AC3MDP BULK AC3MDPL AC3MDPL BULK
			XLR 3 pole male, D Flange, Airtight Thermoplastic shell, Machined Contacts, Solder Buckets	Standard Bulk Pack Non-Latching Non-Latching Bulk	AC3MMDP AC3MMDP BULK AC3MMDPL AC3MMDPL 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, **Male**, **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
	MM	=	Male Machined Contacts
SHELL STYLE	D	=	Small Shell
SHELL SERIES	P	=	Thermoplastic Chassis Series
TERMINATION	Blank	=	Solder Buckets
	V	=	Vertical Printed Circuit Board
	H	=	Horizontal Printed Circuit Board
LOCKING MECHANISM	Blank	=	Latching
	L	=	Latchless (Non-Latching)
CONTACT PLATING	Blank	=	Standard Plating (Silver or Tin - Refer to Standard Data.)
	AU	=	Gold Plated Contacts
PACKAGING	Blank	=	Individual Bags
	BULK	=	Bulk Packed



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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 64

Features:

- Thermoplastic Shell.
- Optional "D", "P" or Dual Housing flange sizes.
- Insulation Displacement Contacts (IDC)
- Stamped contacts.
- Leading first mate last break socket contact.
- Positive latch lock system.
- Coloured housings available as specials.

Options: Gold plated contacts, Bulk Pack, Latching or Non-latching
Part Number Breakdown: page 63 Specifications: page 64
Assembly Instructions: page 66 Panel Cutouts: page 65

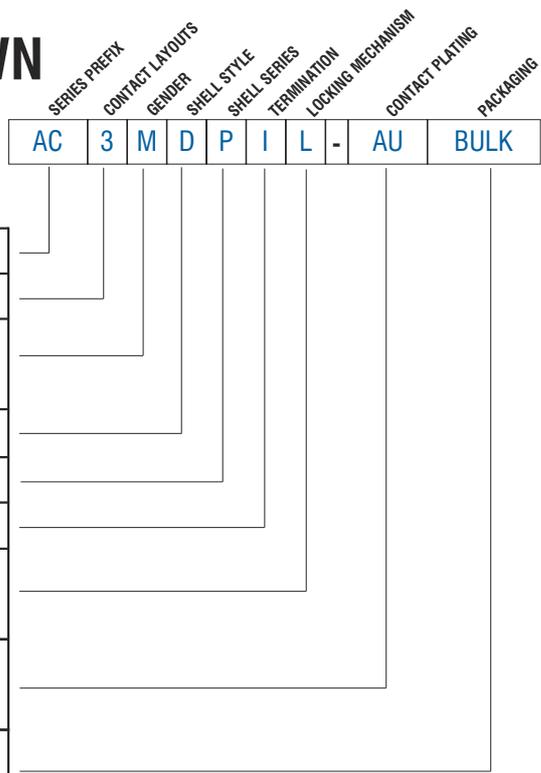
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
			XLR 3 pole male, D Flange, IDC contacts, Thermoplastic shell	Standard	AC3MDPI
				Bulk Pack	AC3MDPI BULK
				Non-Latching	AC3MDPIL
				Non-Latching Bulk	AC3MDPIL BULK
			XLR 3 pole female, D Flange, IDC contacts,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

PART NUMBER BREAKDOWN

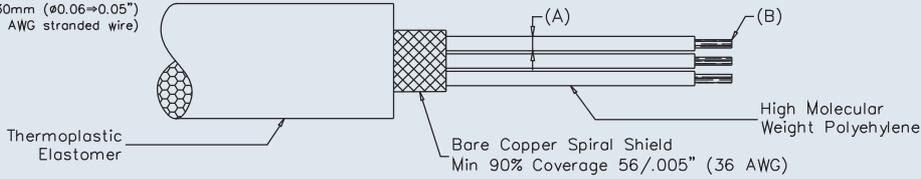
IDC D AND P THERMOPLASTIC CHASSIS TYPE

E. G. **AC3MDPIL-AU BULK**
AC (series prefix), **3** contacts, **M**ale, **D** Flange, 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
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



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 EU RoHS 2 Directive 2011/65/EU	
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	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 $\phi 1.50 \Rightarrow 1.30\text{mm}$ ($\phi 0.06 \Rightarrow 0.05''$) B - $16/.005''$ (24 AWG stranded wire)	

¹⁾ Not suitable for domestic applications above 50V

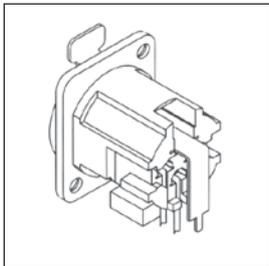
²⁾ Approximate weight in grams does not include packaging. Please contact us for exact weight for shipping purposes.

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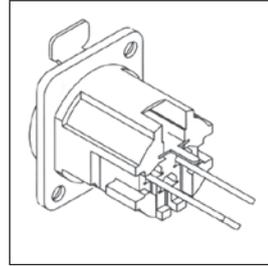
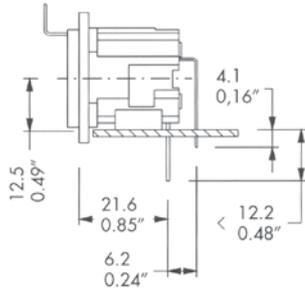
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AC SERIES RECEPTACLES THERMOPLASTIC

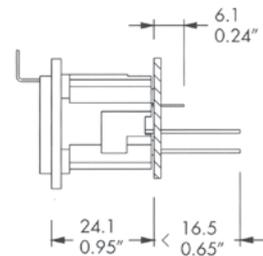
MOUNTING INFORMATION



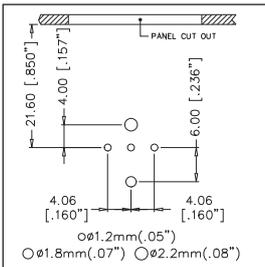
'D' SERIES
90° PCB (H)



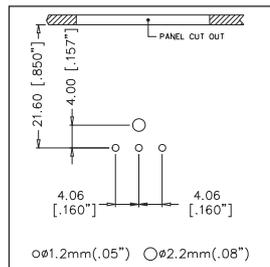
'D' SERIES
STRAIGHT PCB (V)



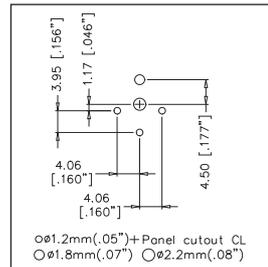
PCB FOOTPRINT - CONNECTOR SIDE OF PCB



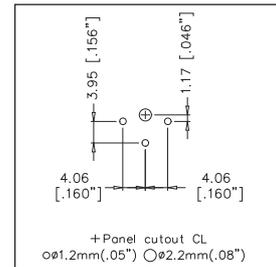
AC3FDPH



AC3MDPH

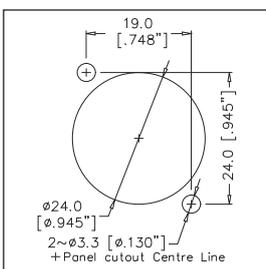


AC3FDPV



AC3MDPV

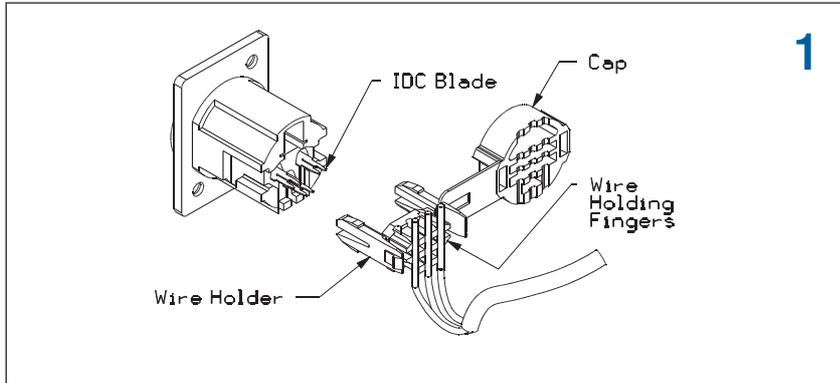
PANEL CUTOUT DIMENSIONS - FRONT VIEW



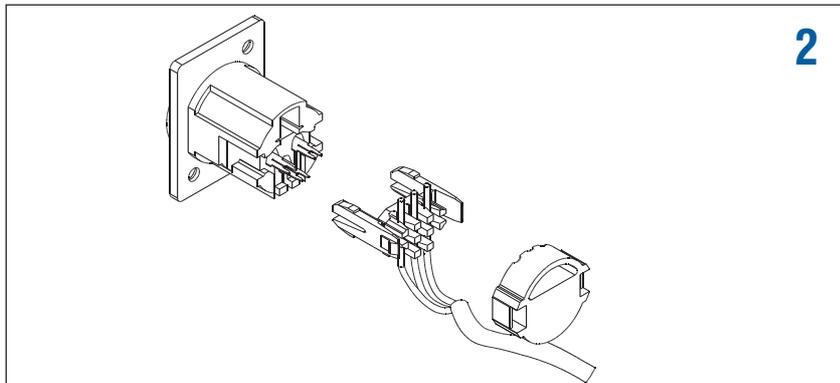
AC3FDP / AC3MDP



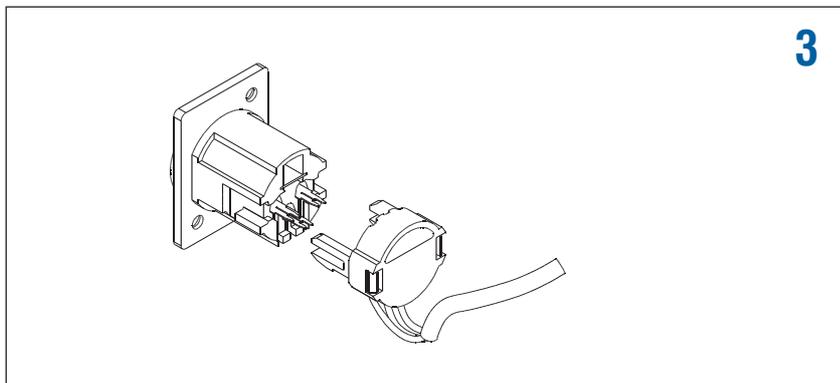
AC IDC SERIES CHASSIS ASSEMBLY INSTRUCTIONS



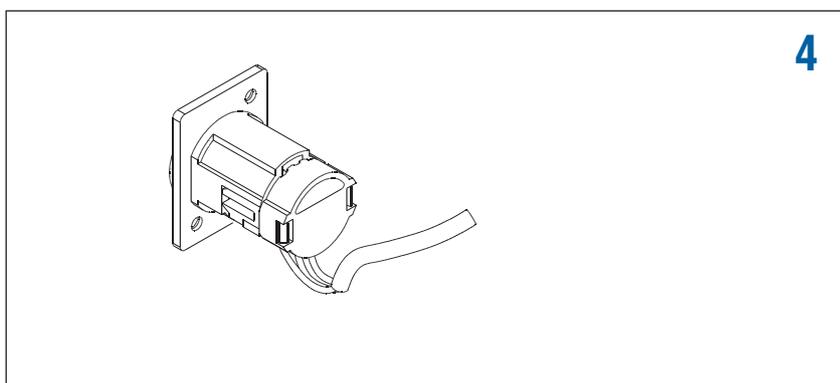
Lay the insulated conductors between the wire holding fingers. The fingers will retain the wire if it is inserted sufficiently.



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



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



Ensure wire holder snaps into the body.



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