



## XLRnet CONNECTORS

XLRnet was designed in conjunction with the Amphenol Data / Telecom product group of Amphenol Canada Corp., a subsidiary of Amphenol Corporation. Utilising our combined expertise and knowledge of the professional audio and high-speed data markets we are proud to offer the XLRnet series. Featuring Class D (10/100 Base-T) or CAT5E (1000 Base-T) ethernet performance in A or B type housings with integrated LED's and complete shielding options we have your high-speed data requirements covered.

### Features

- Class D (10/100 Base-T) or CAT5E (1000 Base-T) ethernet performance
- A, B or D type chassis housings
- IDC or IDC 110 punch down terminals
- RJ45 feedthrough panel connectors
- Shielded or non-shielded
- LED indicators in a variety of colours.
- Compact design
- Cable plug housings
- Quick and simple installation

### Options

- Horizontal or Vertical PCB contacts
- Bulk Packaging
- LED colour - Red, Green, Yellow or Blue combinations

### 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.





## XLRnet SERIES

### Features/Benefits:

- XLR RJ45 Cable plug housing.
- Designed for pre-assembled RJ45 cables.
- Quick and simple installation.
- Cost effective method for harsh environments.
- No cabling in field required.
- No tools required for installation.
- Available in Nickel or Black housings.
- Coloured boots / Backshells

Specifications: Page 77

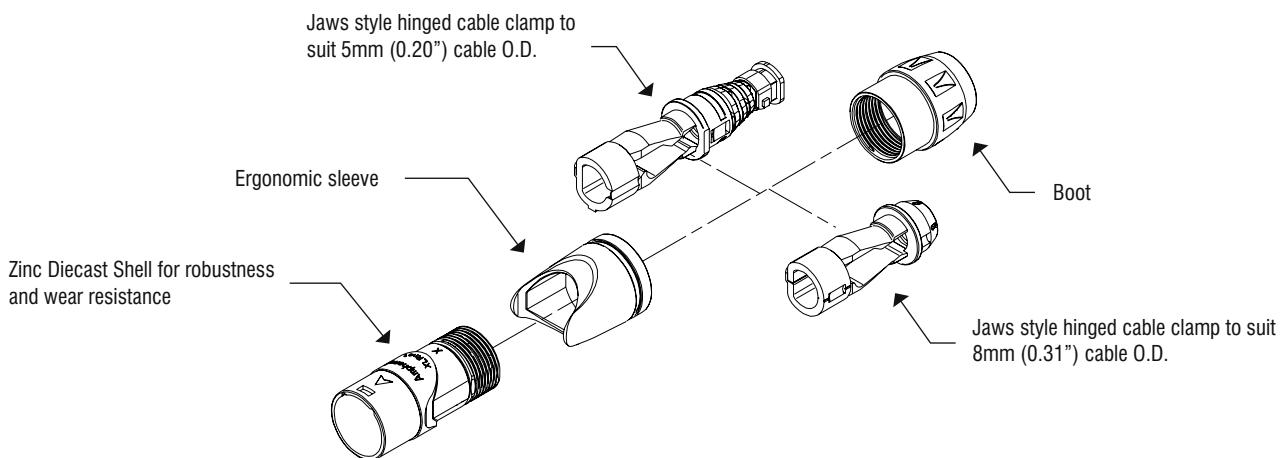
Part Number Breakdown : Page 77

Assembly Instructions: Page 78

**NOTE\*** RJ45 preassembled cable sold separately and is not included with the XLRnet connector.

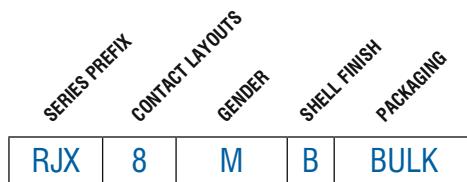
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		84 [3.31"] Φ21 .81"	XLRnet, XLR cable plug housing to suit pre-assembled RJ45 cables, Nickel Finish	Standard	RJX8M
				Bulk Pack	RJX8M BULK
		84 [3.31"] Φ21 .81"	XLRnet, XLR cable plug housing to suit pre-assembled RJ45 cables, Black Finish	Standard	RJX8MB
				Bulk Pack	RJX8MB BULK

## ISO VIEW OF RJX8M



## PART NUMBER BREAKDOWN

### XLRnet SERIES



E. G. **RJX8MB BULK**  
 RJX (Series Prefix), 8 contacts, M (Cable Connector), B (Black Finish),  
 Bulk Packaged

<b>SERIES PREFIX</b>	RJX	=	Series Prefix
<b>CONTACT LAYOUT</b>	8	=	RJ45 Cable Housing
<b>GENDER</b>	M	=	Male Cable Plug
<b>SHELL FINISH</b>	Blank	=	Nickel Plated Finish
	B	=	Metal - Black Finish
<b>PACKAGING</b>	Blank	=	Individual Bags
	BULK	=	Bulk Packed

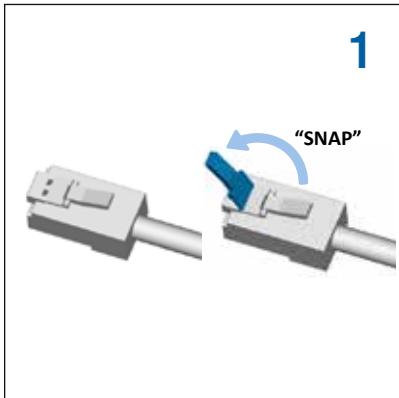
## STANDARD DATA XLRnet SERIES



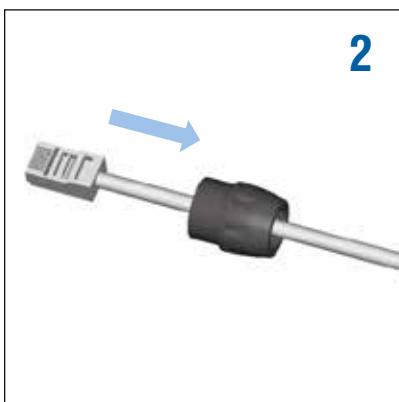
		VALUE
<b>GENERAL CHARACTERISTICS</b>	Termination	Preassembled RJ45 Cable (Not supplied)
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU
<b>CLIMATIC CHARACTERISTICS</b>	Protection Class	IP40
	Operating Temperature	-25 °C to +75 °C (-13°F to -167°F)
<b>MECHANICAL CHARACTERISTICS</b>	Insertion and Withdrawal force	≥10N - ≤20N
	Weight <sup>2)</sup>	26g (0.057lb)
	Cable O.D. range	5 or 8mm (0.20" or 0.31")
	Mechanical Operations	1000 mating cycles
<b>MATERIALS</b>	Connector shell - Metal Shell finish	Diecast Zinc Alloy Satin nickel or Black
	Boot / Backshell Finish	UL94V-0 Noryl N190 / Valox Black
	Cable clamp	PA6
	Sleeve	Valox

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

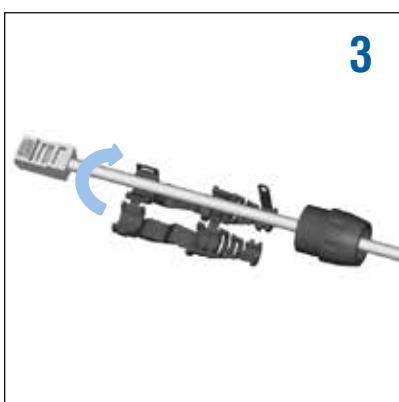
## XLRnet SERIES CABLE ASSEMBLY INSTRUCTIONS



 Snap or cut off release tab of the RJ45 plug.  
Failure to remove the RJ45's Release Tab will make the XLRnet assembly permanently latching. The XLRnet series has an independent panel side latching system.



Slide the nut (backshell) onto the cable.



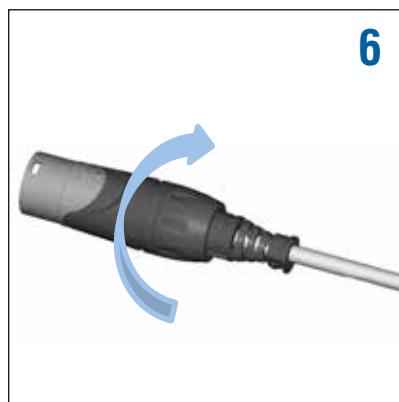
Install the cable clamp-boot.



Close clamp-boot, fasten the two tabs together to lock.



Push clamp-boot & cable together into the shell



Thread the nut (backshell) onto the shell (torque 0.8Nm-1.2Nm) to close the connector assembly.




**Features:**

- RJ45 Class D (10/100 Base-T) or CAT5E (1000 Base-T) Ethernet performance
- A or B type chassis housings
- Shielded or non-shielded
- LED indicators in a variety of colours.
- Horizontal or Vertical PCB
- Mates with XLRnet cable plugs or standard RJ45 plug.

**Part Number Breakdown: Page 81**
**Specifications: Page 85**
**PCB Footprints: Page 84**
**Recommended Fastener: Page 138**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	PACK	LED* LHS/RHS	PART NUMBER
			XLRnet chassis, Class D, A type, Horizontal PCB	Bulk Pack	-	RJX8FA3HB
			XLRnet chassis, CAT 5e, B type, Horizontal PCB	Bulk Pack	-	RJX8FB5HB
			XLRnet chassis, CAT 5e, B type, LEDs, Horizontal PCB, Bulk packed	Bulk Pack	R G	RJX8FB5HRGB
					R Y	RJX8FB5HRYB
					R R	RJX8FB5HRRB
					G R	RJX8FB5HGRB
					G Y	RJX8FB5HGYB
					U U	RJX8FB5HUUB
			XLRnet chassis, CAT 5e, B type, Shielded Hood, Horizontal PCB, Bulk packed	Bulk Pack	-	RJX8FB5HEB
			XLRnet chassis, CAT 5e, B type, Shielded Hood, LEDs, Horizontal PCB, Bulk packed	Bulk Pack	R G	RJX8FB5HRGB
					R Y	RJX8FB5HRYB
					R R	RJX8FB5HRRB
					G R	RJX8FB5HGRB
					G Y	RJX8FB5HGYB
					U U	RJX8FB5HUUEB

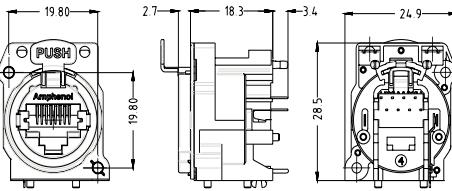
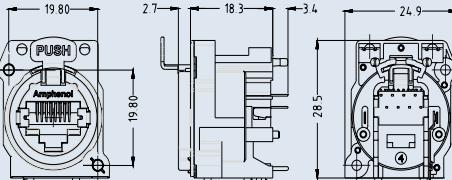
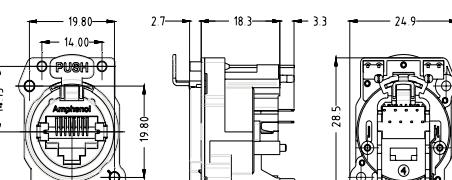
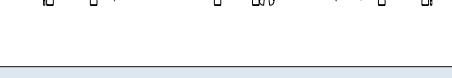
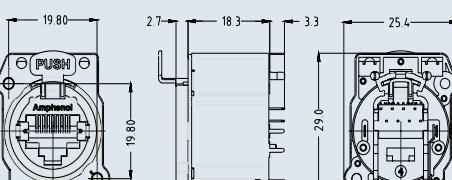
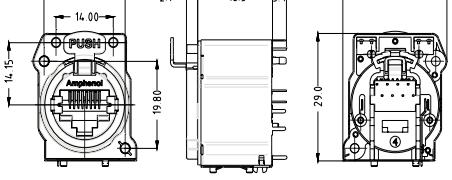
\*Note: LED colours are denoted left to right from the panel side front view. Refer page 84

R = Red, G = Green, Y = Yellow, U = Blue



# Amphenol

XLRnet CHASSIS CONNECTORS

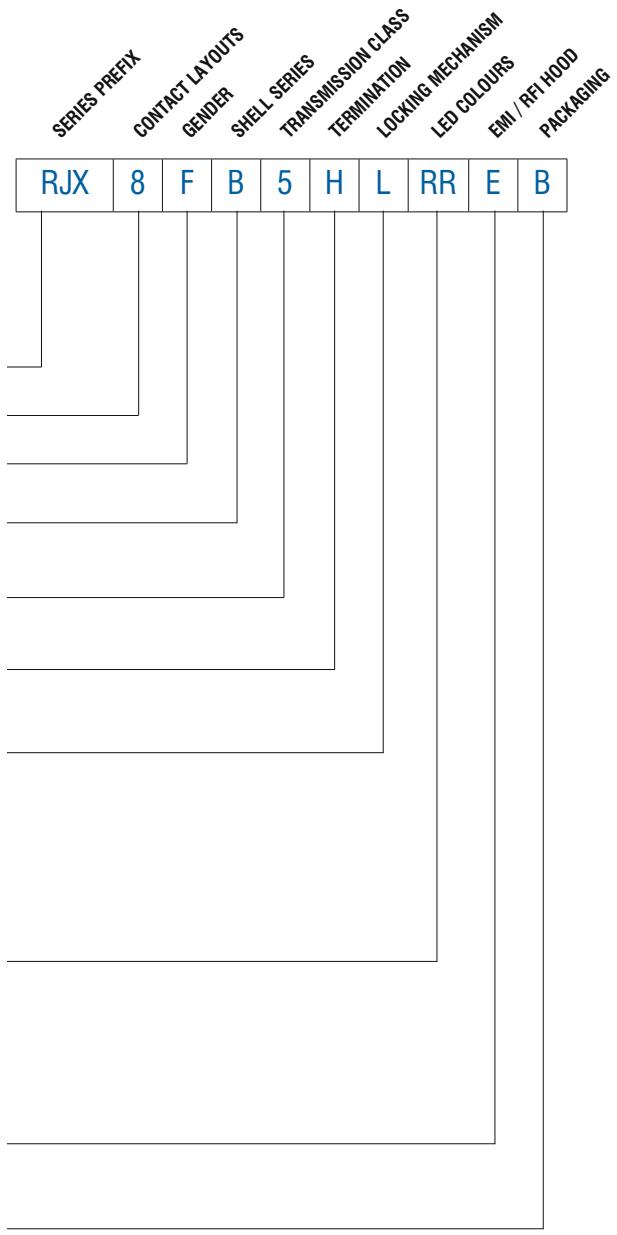
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	PACK	LED* LHS/RHS	PART NUMBER	
			XLRnet chassis, Class D, A type, Vertical PCB	Bulk Pack	-	RJX8FA3VB	
			XLRnet chassis, CAT 5e, A type, Vertical PCB			RJX8FA5VB	
			XLRnet chassis, Class D, B Type, Vertical PCB	Bulk Pack	-	RJX8FB3VB	
			XLRnet chassis, CAT 5e, B type, Vertical PCB			RJX8FB5VB	
			XLRnet chassis, CAT 5e, B type, LEDs, Vertical PCB, Bulk packed	Bulk Pack	R	G	RJX8FB5VRGB
					R	Y	RJX8FB5VRYB
					R	R	RJX8FB5VRRB
					G	R	RJX8FB5VGRB
					G	Y	RJX8FB5VGYB
					U	U	RJX8FB5VUUB
			XLRnet chassis, CAT 5e, B type, Shielded Hood, Vertical PCB, Bulk packed	Bulk Pack	-	-	RJX8FB5VEB
			XLRnet chassis, CAT 5e, B type, Shielded Hood, LEDs, Vertical PCB, Bulk packed	Bulk Pack	R	G	RJX8FB5VRGB
					R	Y	RJX8FB5VRYEB
					R	R	RJX8FB5VRRB
					G	R	RJX8FB5VGRB
					G	Y	RJX8FB5VGYEB
					U	U	RJX8FB5VUEB

\*Note: LED colours are denoted left to right from the panel side front view. Refer page 84  
R = Red, G = Green, Y = Yellow, U = Blue

## PART NUMBER BREAKDOWN

XLRnet A AND B TYPE Printed Circuit Board Connectors

E. G. **RJX8FB5HLRREB**  
**RJX** (Series Prefix), **8** (Contacts), **Female B** type, **5** Cat5E **Horizontal**, **Latchless**,  
 Red - Red LEDs, **EMI / RFI Hood**, **Bulk** Packaged.



\*Note: LED colours are denoted left to right from the panel side front view.  
 Refer Page 84



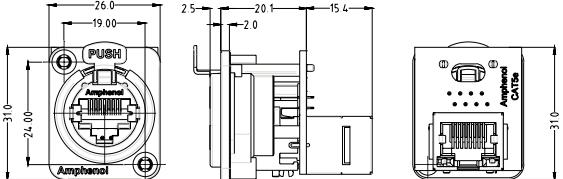
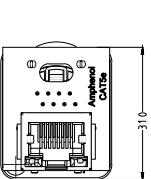
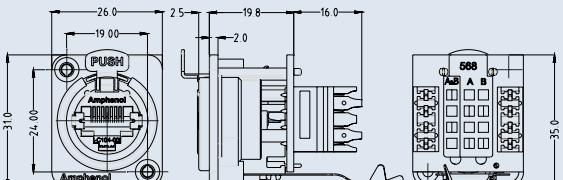
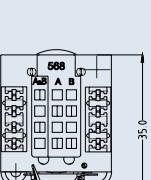
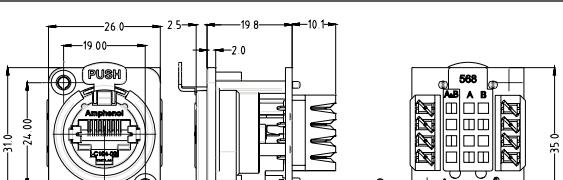
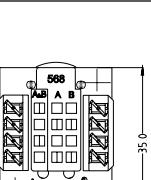
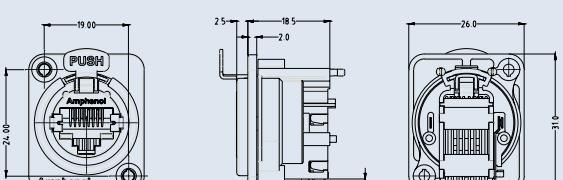
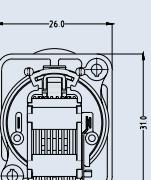
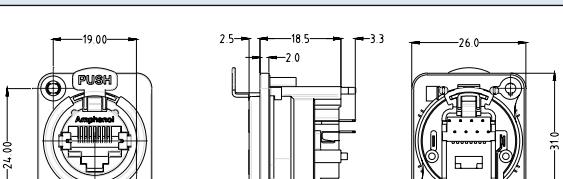
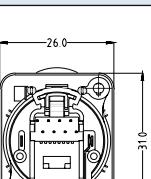
# Amphenol

XLRnet CHASSIS CONNECTORS

**Features:**

- RJ45 Class D (10/100 Base-T) or CAT5E (1000 Base-T) Ethernet performance
- D type XLR standard housings
- IDC Punchdown block
- Thru-adaptor / Feedthrough
- Horizontal or Vertical PCB

**Part Number Breakdown: Page 83****Specifications: Page 85****PCB Footprints: Page 84****Recommended Fastener: Page 138**

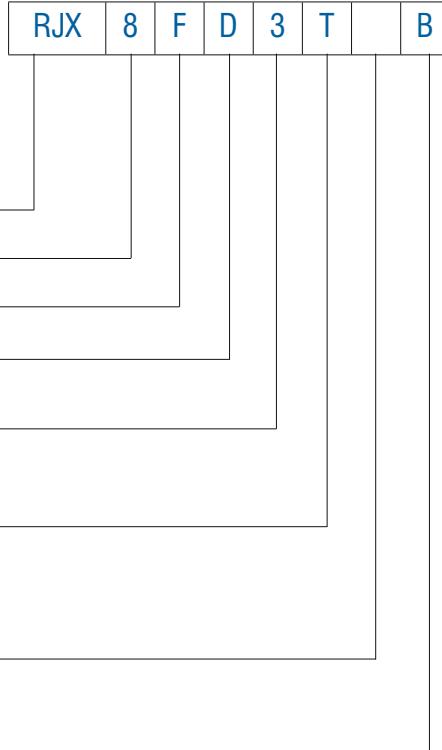
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	PACK	PART NUMBER
			XLRnet chassis, CAT 5e, D type, Feedthrough, Nickel Finish	Standard	RJX8FD5T
				Bulk Pack	RJX8FD5TB
			XLRnet chassis, CAT 5e, D type, IDC Terminals, 110 type, Nickel Finish	Standard	RJX8FD5110
				Bulk Pack	RJX8FD5110B
			XLRnet chassis, CAT 5e, D type, IDC Terminals, Nickel Finish	Standard	RJX8FD5I
				Bulk Pack	RJX8FD5IB
			XLRnet chassis, Class D, D type, Horizontal PCB, Nickel Finish	Standard	RJX8FD3HB
				Bulk Pack	RJX8FD5HB
			XLRnet chassis, Class D, D type, Vertical PCB, Nickel Finish	Standard	RJX8FD3VB
				Bulk Pack	RJX8FD5VB

## PART NUMBER BREAKDOWN

XLRnet D TYPE Chassis Connectors

E. G. **RJX8FD3TB**  
**RJX** (Series Prefix), **8** (Contacts), **F**emale **D** type, **3** Class D **T**hru Adaptor,  
 Bulk Packaged

SERIES PREFIX  
 CONTACT LAYOUTS  
 GENDER  
 SHELL SERIES  
 TRANSMISSION CLASS  
 TERMINATION CLASS  
 LOCKING MECHANISM  
 PACKAGING



<b>SERIES PREFIX</b>	RJX	=	Series Prefix
<b>CONTACT LAYOUT</b>	8	=	RJ45 type
<b>GENDER</b>	F	=	Receptacle housing
<b>SHELL SERIES</b>	D	=	D Type
<b>TRANSMISSION CLASS</b>	3	=	Class D
	5	=	CAT 5e
<b>TERMINATION</b>	H	=	Horizontal Printed Circuit Board
	I	=	IDC Punch Down Block
	110	=	IDC 110 Punch Down Block
	T	=	Thru adaptor / Feedthrough
	V	=	Vertical Printed Circuit Board
<b>LOCKING MECHANISM</b>	Blank	=	Latching
	P	=	Push lever supplied separately for customer installation (Contact factory for detailed fitting instructions)
<b>PACKAGING</b>	Blank	=	Individual
	B	=	Bulk packed

\*Note: LED colours are denoted left to right from the panel side front view.  
 Refer Page 84

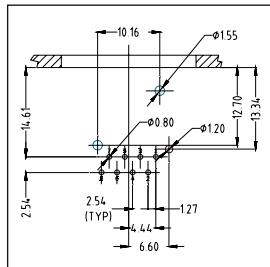


# Amphenol

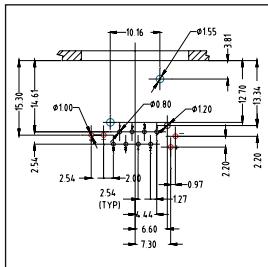
XLRnet CHASSIS CONNECTORS

A, B AND D TYPE FLANGE

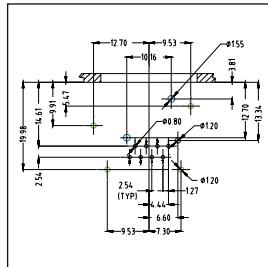
## XLRNET A, B AND D TYPE SERIES



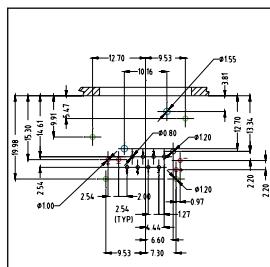
RJX8FA3H  
RJX8FA3HB  
RJX8FB5H  
RJX8FB5HB



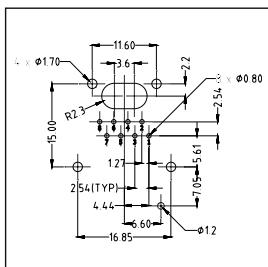
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RJX8FB5HRYB  
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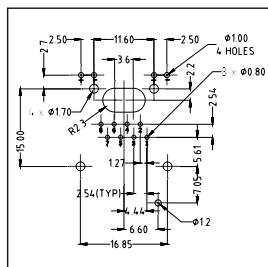
RJX8FB5HEB



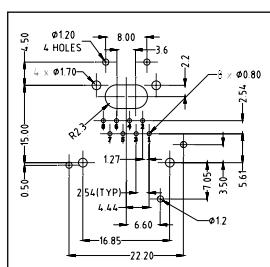
RJX8FB5HRGB  
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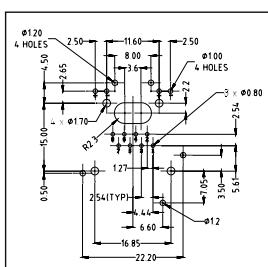
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RJX8FB3VB  
RJX8FB5VB



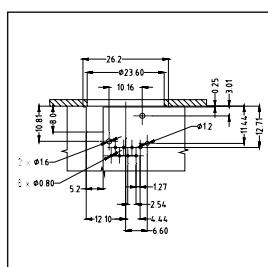
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RJX8FB5VUUB



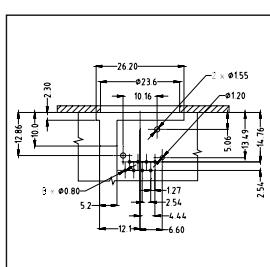
RJX8FB5VGB



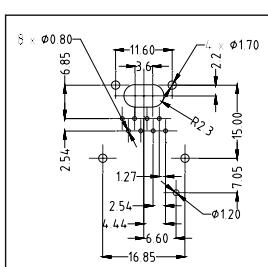
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RJX8FB5VUUB



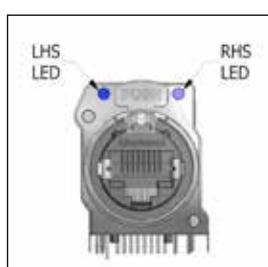
RJX8FD3HB  
RJX8FD5HB  
(Front  
Mounting)



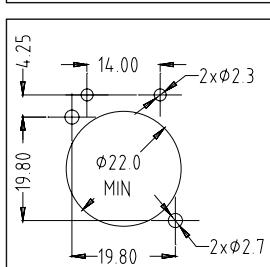
RJX8FD3HB  
RJX8FD5HB  
(Rear  
Mounting)



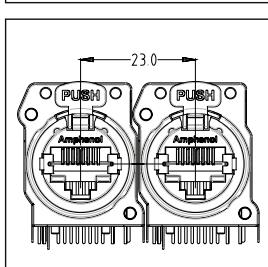
RJX8FD3VB  
RJX8FD5VB



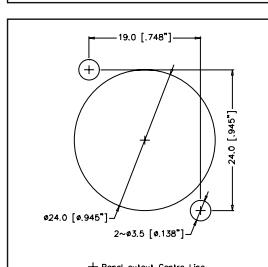
LHS LED  
RHS LED  
Arrangement  
(Front view)



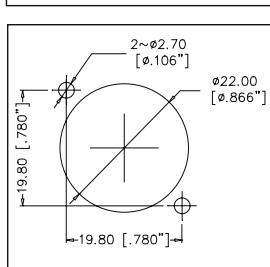
PANEL CUTOUT  
A and B type  
with LED's



XLRnet  
MOUNTING  
PITCH /  
A and B Type



D Type



A and B Type

CONDUCTOR	Alternative-A (MDI-X)	Alternative-A (MDI)	Alternative-A (All)
1	Negative $V_{PSE}$	Positive $V_{PSE}$	
2	Negative $V_{PSE}$	Positive $V_{PSE}$	
3	Positive $V_{PSE}$	Negative $V_{PSE}$	
4			Positive $V_{PSE}$
5			Positive $V_{PSE}$
6	Positive $V_{PSE}$	Negative $V_{PSE}$	
7			Negative $V_{PSE}$
8			Negative $V_{PSE}$

XLRnet PoE+  
PSE Pinout Alternatives



## STANDARD DATA XLRnet CHASSIS RECEPTACLES

		VALUE - Class D	VALUE - CAT 5e
GENERAL CHARACTERISTICS	Number of contacts	8	
	Contact Arrangement	RJ45	
	Termination	Printed Circuit Board (PCB) - through hole	
	Flammability	UL94V-0	
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU	
	Solderability	MIL-STD 202, Method 208	
ELECTRICAL CHARACTERISTICS	Rated current per contact	1.5 A	
	Rated Voltage	125V AC	
	Typical Contact Resistance	20mΩ	
	Insulation Resistance	> 500MΩ	
	Dielectric Strength	1000 VAC, 60 secs	
	Frequency Bandwidth	1 - 100Mhz	1 - 250Mhz
	Transmission Specification / Class	10/100 Base-T	1000 Base-T
	PoE+	802.3at Type 2	
	LED Type	Round, single pole, indicator	
	Protection Class	IP40 (with EMI/RFI shield)	
CLIMATIC CHARACTERISTICS	Operating Temperature	-40°C to +80°C (-40°F to +176°F)	
	Weight** - A & B Housing - Shielded Housing	11g (0.024lb) 17g (0.037lb)	
MECHANICAL CHARACTERISTICS	Mechanical Operations	1000	
	Insertion and Withdrawal Force	≤ 21N	
	Latch	Spring Steel	
	Panel Thickness max.	3mm	
	Mounting screw torque max.	0.35Nm	
	Fastener	Self-Tapping screw M2.5	
	Connector Shell / Housing	Thermoplastic, DSM Stanyl UL94V-0, 30% GF / PA66 30% GF	
MATERIALS	Flange (A type)	Thermoplastic, DSM Stanyl UL94V-0, 30% GF	
	Flange (B type)	Diecast Zinc Alloy 3	
	Flange Finish (B type)	Satin Nickel	
	Contact	Phosphor Bronze	
	Contact Finish - Ground - RJ45	0.38µm Au over 1.27µm Ni 1.27µm Au over 1.27µm Ni	
	Metal Hood Shield EMI/RFI	Brass, nickel plated	
	Latch lock and Spring	Spring steel	

\*\*Approximate weight in grams not including packaging. Please contact us for exact weight for shipping purposes.



Rev 2 - 05/2014

# Mouser Electronics

Authorized Distributor

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