



## 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), CAT5E (1000 BASE-T) or CAT6 (10GBASE-T) ethernet performance in A, B or D shell housings with integrated LED's and complete shielding options we have your high-speed data requirements covered.

### Features

- Class D (10/100 BASE-T), CAT5E (1000 BASE-T) or CAT6 (10GBASE-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 CABLE CONNECTOR

### Features/Benefits:


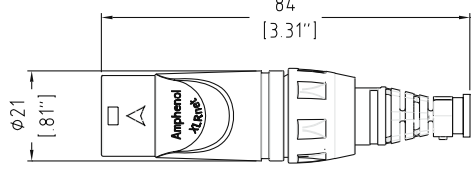

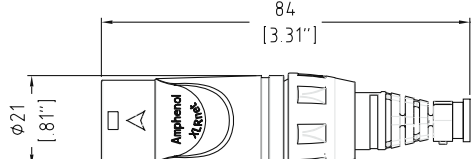
- XLR RJ45 Cable plug housing.
- Designed for pre-assembled RJ45 cables.
- Quick and simple installation.
- Cost effective method for harsh environments.
- No cabling in field required.
- No tools required for installation.
- Available in Nickel or Black housings.
- Coloured boots / Backshells

**Specifications:** Page 80

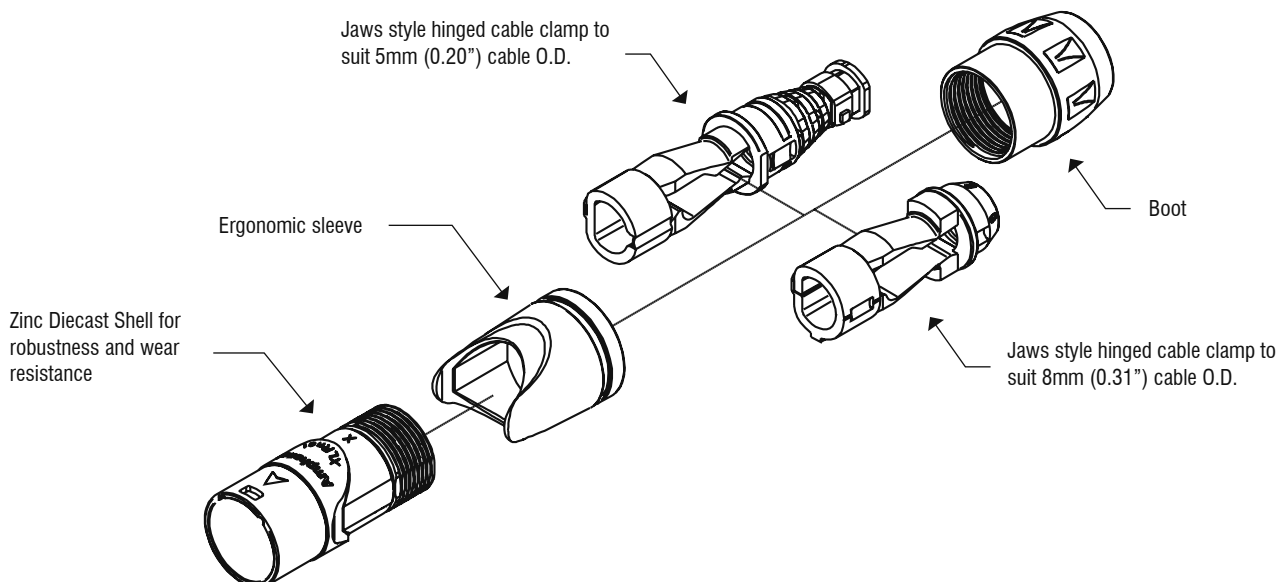
**Part Number Breakdown :** Page 80

**Assembly Instructions:** Page 81

**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"]	XLRnet, XLR cable plug housing to suit preassembled RJ45 cables, Nickel Finish	Standard	RJX8M
				Bulk Pack	RJX8M BULK
		84 [3.31"]	XLRnet, XLR cable plug housing to suit preassembled RJ45 cables, Black Finish	Standard	RJX8MB
				Bulk Pack	RJX8MB BULK

## ISO VIEW OF RJX8M



PART NUMBER BREAKDOWN

XLRnet SERIES

SERIES PREFIX

CONTACT LAYOUTS

GENDER

SHELL FINISH

PACKAGING

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

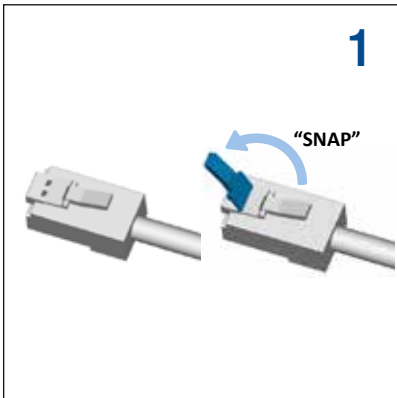
SERIES PREFIX	RJX	=	Series Prefix
CONTACT LAYOUT	8	=	RJ45 Cable Housing
GENDER	M	=	Male Cable Plug
SHELL FINISH	Blank	=	Nickel Plated Finish
	B	=	Metal - Black Finish
PACKAGING	Blank	=	Individual Bags
	BULK	=	Bulk Packed

STANDARD DATA XLRnet SERIES

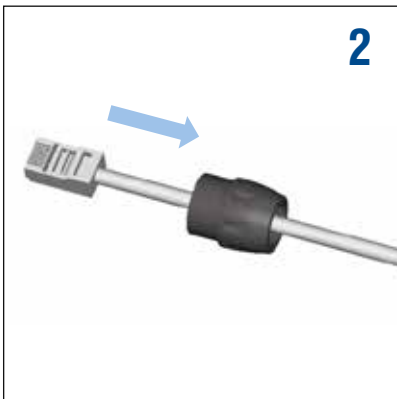
		VALUE
GENERAL CHARACTERISTICS	Termination	Preamsembled RJ45 Cable (Not supplied)
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU
CLIMATIC CHARACTERISTICS	Protection Class	IP40
	Operating Temperature	-25°C to +75°C (-13°F to -167°F)
MECHANICAL CHARACTERISTICS	Insertion and Withdrawal force	≥ 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
MATERIALS	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.

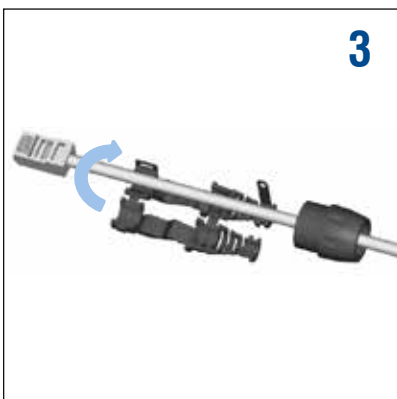
# XLRnet SERIES CABLE ASSEMBLY INSTRUCTIONS



**⚠** 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.



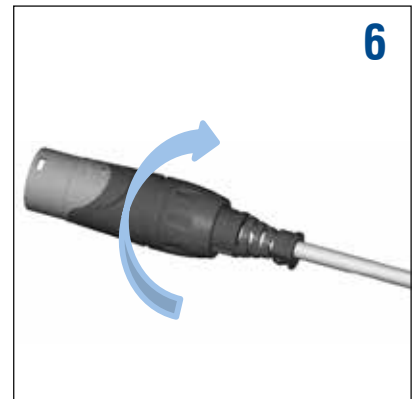
Install the cable clamp-boot.



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



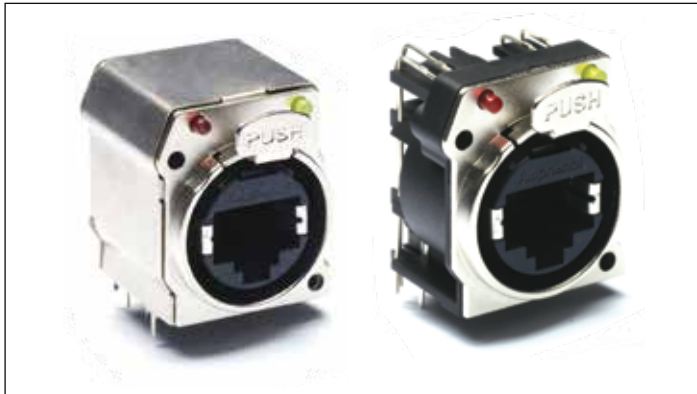
Push clamp-boot & cable together into the shell



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

# Data Connectors

## XLrnet Series A & B Type Chassis Receptacles



## XLRNET SERIES A & B TYPE CHASSIS RECEPTACLES

### Features:

- RJ45 Class D (10/100 BASE-T), CAT5E (1000 BASE-T) or CAT6 (10GBASE-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 84**

**Specifications: Page 89**

**PCB Footprints: Page 88**


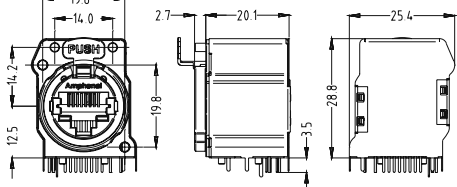

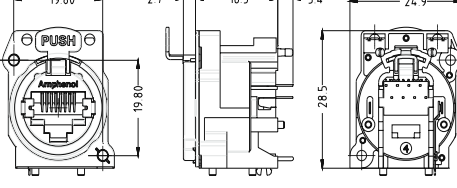

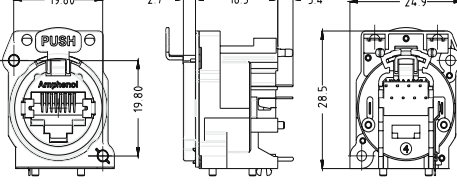

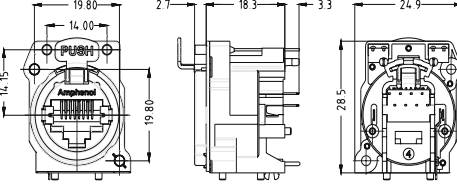

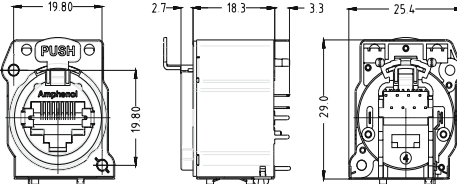
**Recommended Fastener: Page 135**

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	TYPE	LED* LHS/RHS		PART NUMBER
			XLrnet chassis, A type, Horizontal PCB	Class D	-	-	<a href="#">RJX8FA3HB</a>
				CAT5E	-	-	<a href="#">RJX8FA5HB</a>
				CAT6	-	-	<a href="#">RJX8FA6HB</a>
			XLrnet chassis B type, Horizontal PCB	Class D	-	-	<a href="#">RJX8FB3HB</a>
				CAT5E	-	-	<a href="#">RJX8FB5HB</a>
				CAT6	-	-	<a href="#">RJX8FB6HB</a>
			XLrnet chassis, B type, LEDs, Horizontal PCB, Bulk packed	CAT5E	R	G	<a href="#">RJX8FB5HRGB</a>
					R	Y	<a href="#">RJX8FB5HRYB</a>
					R	R	<a href="#">RJX8FB5HRRB</a>
					G	R	<a href="#">RJX8FB5HGRB</a>
					G	Y	<a href="#">RJX8FB5HGYB</a>
					U	U	<a href="#">RJX8FB5HUUB</a>
				CAT6	R	G	<a href="#">RJX8FB6HRGB</a>
					R	Y	<a href="#">RJX8FB6HRYB</a>
					R	R	<a href="#">RJX8FB6HRRB</a>
					G	R	<a href="#">RJX8FB6HGRB</a>
					G	Y	<a href="#">RJX8FB6HGYB</a>
					U	U	<a href="#">RJX8FB6HUUB</a>
			XLrnet chassis, B type, Shielded Hood, Horizontal PCB, Bulk packed	Class D	-	-	<a href="#">RJX8FB3HEB</a>
				CAT5E	-	-	<a href="#">RJX8FB5HEB</a>
				CAT6	-	-	<a href="#">RJX8FB6HEB</a>

\*Note: LED colours are denoted left to right from the panel side front view. Refer page 88  
R = Red, G = Green, Y = Yellow, U = Blue

# Data Connectors


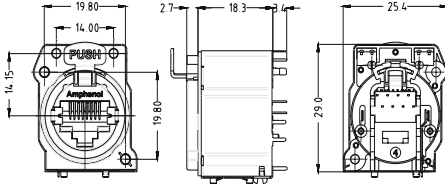
## XLRnet Series A & B Type Chassis Receptacles

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	TYPE	LED* LHS/RHS		PART NUMBER
		2.7 20.1 25.4 28.8 3.5 19.8 14.0 14.2 12.5 19.8	XLRnet chassis, B type, Shielded Hood, LEDs, Horizontal PCB, Bulk packed	CAT5E	R	G	<a href="#">RJX8FB5HRGEB</a>
					R	Y	<a href="#">RJX8FB5HRYEB</a>
					R	R	<a href="#">RJX8FB5HRRRB</a>
					G	R	<a href="#">RJX8FB5HGREB</a>
					G	Y	<a href="#">RJX8FB5HGYEB</a>
					U	U	<a href="#">RJX8FB5HUUEB</a>
				CAT6	R	G	<a href="#">RJX8FB6HRGEB</a>
					R	Y	<a href="#">RJX8FB6HRYEB</a>
					R	R	<a href="#">RJX8FB6HRRRB</a>
					G	R	<a href="#">RJX8FB6HGREB</a>
		2.7 18.3 3.4 24.9 28.5 19.80 14.00 19.80	XLRnet chassis, A type, Vertical PCB	Class D	-	-	<a href="#">RJX8FA3VB</a>
				CAT5E			<a href="#">RJX8FA5VB</a>
				CAT6			<a href="#">RJX8FA6VB</a>
		2.7 18.3 3.4 24.9 28.5 19.80 14.00 19.80	XLRnet chassis, B Type, Vertical PCB	Class D	-	-	<a href="#">RJX8FB3VB</a>
				CAT5E			<a href="#">RJX8FB5VB</a>
				CAT6			<a href="#">RJX8FB6VB</a>
		2.7 18.3 3.3 24.9 28.5 19.80 14.00 14.15 19.80	XLRnet chassis, B type, LEDs, Vertical PCB, Bulk packed	CAT5E	R	G	<a href="#">RJX8FB5VRGB</a>
					R	Y	<a href="#">RJX8FB5VRYB</a>
					R	R	<a href="#">RJX8FB5VRRB</a>
					G	R	<a href="#">RJX8FB5VGRB</a>
					G	Y	<a href="#">RJX8FB5VGYB</a>
					U	U	<a href="#">RJX8FB5VUUB</a>
				CAT6	R	G	<a href="#">RJX8FB6VRGB</a>
					R	Y	<a href="#">RJX8FB6VRYB</a>
					R	R	<a href="#">RJX8FB6VRRB</a>
					G	R	<a href="#">RJX8FB6VGRB</a>
		2.7 18.3 3.3 25.4 29.0 19.80 14.00 19.80	XLRnet chassis, B type, Shielded Hood, Vertical PCB, Bulk packed	Class D	-	-	<a href="#">RJX8FB3VEB</a>
				CAT5E			<a href="#">RJX8FB5VEB</a>
				CAT6			<a href="#">RJX8FB6VEB</a>

\*Note: LED colours are denoted left to right from the panel side front view. Refer page 88  
R = Red, G = Green, Y = Yellow, U = Blue

# Data Connectors

## XLRnet Series A & B Type Chassis Receptacles

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	TYPE	LED* LHS/RHS	PART NUMBER
			XLRnet chassis, B type, Shielded Hood, LEDs, Vertical PCB, Bulk packed	CAT5E	R G	RJX8FB5VRGEB
					R Y	RJX8FB5VRYEB
					R R	RJX8FB5VRREB
					G R	RJX8FB5VGREB
					G Y	RJX8FB5VGYEB
					U U	RJX8FB5VUUEB
				CAT6	R G	RJX8FB6VRGEB
					R Y	RJX8FB6VRYEB
					R R	RJX8FB6VRREB
					G R	RJX8FB6VGREB
					G Y	RJX8FB6VGYEB
					U U	RJX8FB6VUUEB

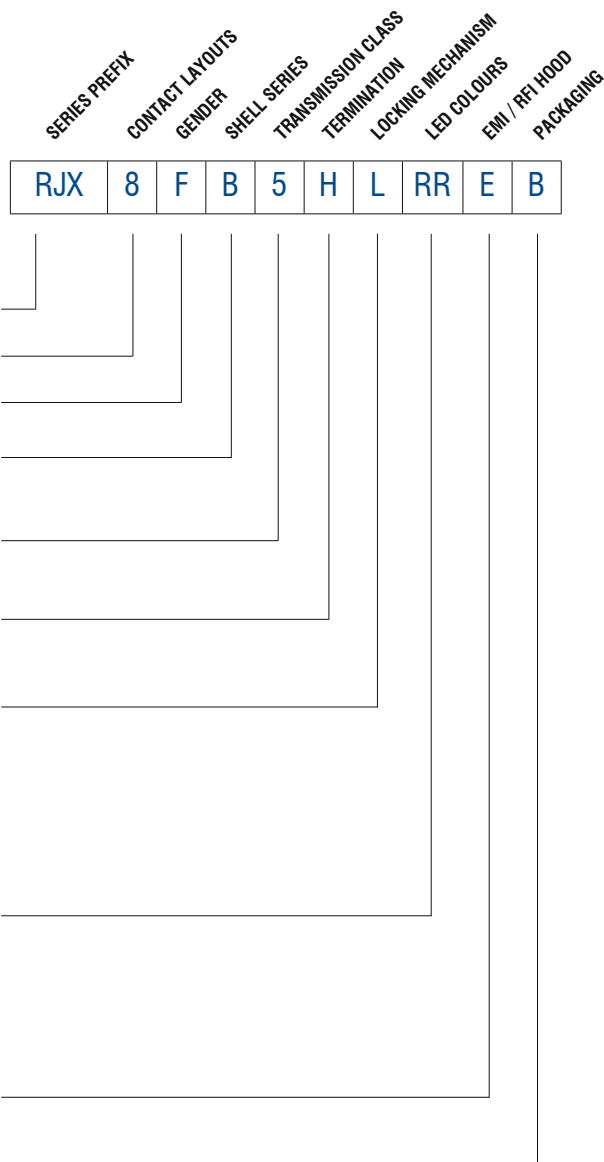
\*Note: LED colours are denoted left to right from the panel side front view. Refer page 88  
R = Red, G = Green, Y = Yellow, U = Blue

## 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.

<b>SERIES PREFIX</b>	RJX	=	Series Prefix
<b>CONTACT LAYOUT</b>	8	=	RJ45 type
<b>GENDER</b>	F	=	Receptacle housing
<b>SHELL SERIES</b>	A B	=	A Type B Type
<b>TRANSMISSION CLASS</b>	3 5 6	=	Class D CAT 5e CAT 6
<b>TERMINATION</b>	H V	=	Horizontal Printed Circuit Board Vertical Printed Circuit Board
<b>LOCKING MECHANISM</b>	Blank P	=	Latching Push lever supplied separately for customer installation (Contact factory for detailed fitting instructions)
<b>LED COLOUR SEQUENCE*</b>	Blank RG RY RR GR GY GG YR YY YG UU	=	No LEDs Red / Green Red / Yellow Red / Red Green / Red Green / Yellow Green / Green Yellow / Red Yellow / Yellow Yellow / Green Blue / Blue
<b>EMI / RFI SHIELDING HOOD</b>	Blank E	=	No shield hood EMI / RFI shield hood
<b>PACKAGING</b>	Blank B	=	Individual Bulk packed



\*Note: LED colours are denoted left to right from the panel side front view.  
Refer Page 88





# XLNET SERIES D TYPE CHASSIS RECEPTACLES

### Features:

- RJ45 Class D (10/100 Base-T), CAT5E (1000 Base-T) or CAT6 (10GBASE-T) Ethernet performance
- D type XLR standard housings
- IDC Punchdown block
- Thru-adaptor / Feedthrough
- Horizontal or Vertical PCB

**Part Number Breakdown:** [Page 87](#)

**Specifications:** [Page 89](#)

**PCB Footprints:** [Page 88](#)


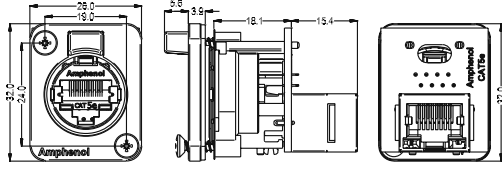

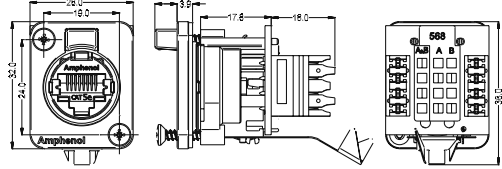

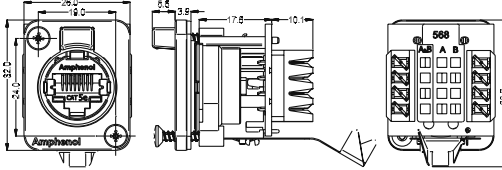

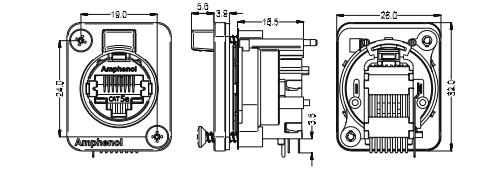

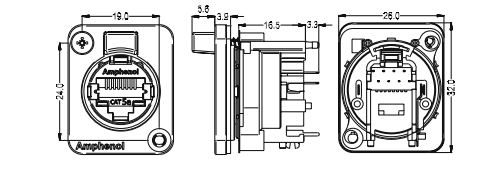

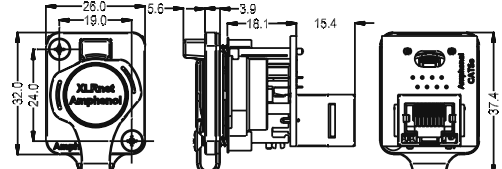

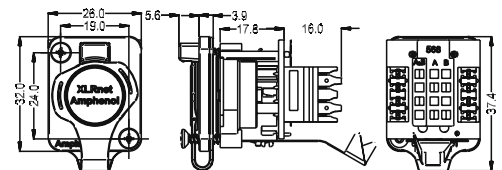

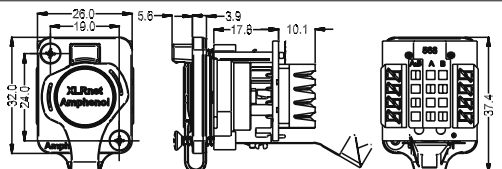

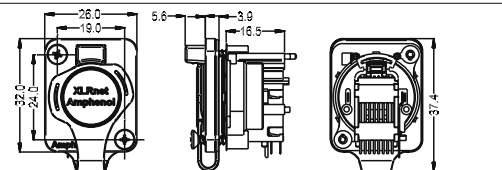

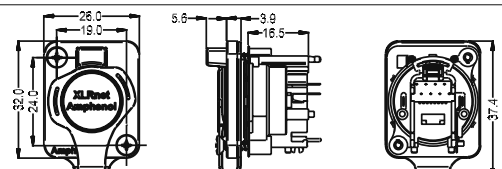
**Recommended Fastener:** [Page 135](#)

PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	TYPE	PART NUMBER
			XLNet chassis, D type, Feedthrough, Nickel Finish	CAT5E	<a href="#">RJX8FD5T</a>
			XLNet chassis, D type, IDC Terminals, 110 type, Nickel Finish	CAT5E	<a href="#">RJX8FD5110</a>
				CAT6	<a href="#">RJX8FD6110</a>
			XLNet chassis, D type, IDC Terminals, Nickel Finish	CAT5E	<a href="#">RJX8FD5I</a>
				CAT6	<a href="#">RJX8FD6I</a>
			XLNet chassis, D type, Horizontal PCB, Nickel Finish	Class D	<a href="#">RJX8FD3HB</a>
				CAT5E	<a href="#">RJX8FD5HB</a>
				CAT6	<a href="#">RJX8FD6HB</a>
			XLNet chassis, D type, Vertical PCB, Nickel Finish	Class D	<a href="#">RJX8FD3VB</a>
				CAT5E	<a href="#">RJX8FD5VB</a>
				CAT6	<a href="#">RJX8FD6VB</a>



# Data Connectors

## XLNnet Series D Type Chassis Receptacles

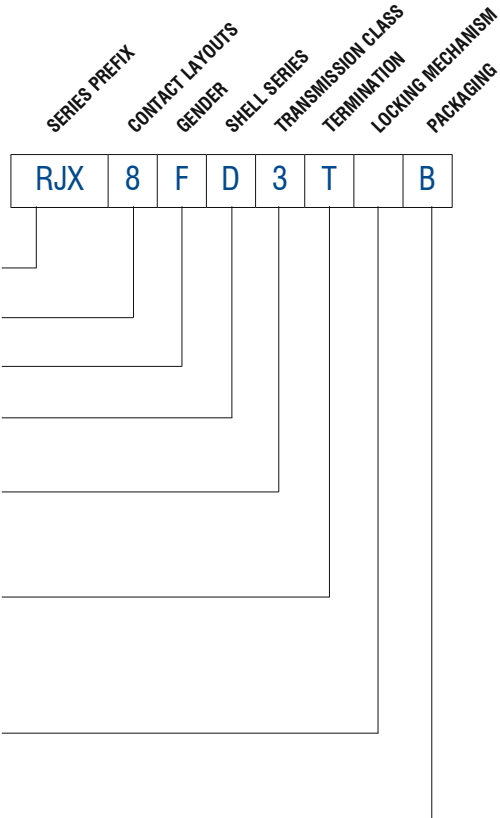
PRODUCT - FIGURE	DRAWING	Dimensions in mm (inches)	DESCRIPTION	TYPE	PART NUMBER
			XLNnet chassis, D type (IP54), Feedthrough, Nickel Finish	CAT5E	<a href="#">RJXS8FD5T</a>
			XLNnet chassis, D type (IP54), IDC Terminals, 110 type, Nickel Finish	CAT5E	<a href="#">RJXS8FD5110</a>
				CAT6	<a href="#">RJXS8FD6110</a>
			XLNnet chassis, D type (IP54), IDC Terminals, Nickel Finish	CAT5E	<a href="#">RJXS8FD5I</a>
				CAT6	<a href="#">RJXS8FD6I</a>
			XLNnet chassis, D type (IP54), Horizontal PCB, Nickel Finish	Class D	<a href="#">RJXS8FD3HB</a>
				CAT5E	<a href="#">RJXS8FD5HB</a>
				CAT6	<a href="#">RJXS8FD6HB</a>
			XLNnet chassis, D type (IP54), Vertical PCB, Nickel Finish	Class D	<a href="#">RJXS8FD3VB</a>
				CAT5E	<a href="#">RJXS8FD5VB</a>
				CAT6	<a href="#">RJXS8FD6VB</a>
			XLNnet chassis with Protective cap, D type (IP54), Feedthrough, Nickel Finish	CAT5E	<a href="#">RJXS8FG5T</a>
			XLNnet chassis with Protective cap, D type (IP54), IDC Terminals, 110 type, Nickel Finish	CAT5E	<a href="#">RJXS8FG5110</a>
				CAT6	<a href="#">RJXS8FG6110</a>
			XLNnet chassis with Protective cap, D type (IP54), IDC Terminals, Nickel Finish	CAT5E	<a href="#">RJXS8FG5I</a>
				CAT6	<a href="#">RJXS8FG6I</a>
			XLNnet chassis with Protective cap, D type (IP54), Horizontal PCB, Nickel Finish	Class D	<a href="#">RJXS8FG3HB</a>
				CAT5E	<a href="#">RJXS8FG5HB</a>
				CAT6	<a href="#">RJXS8FG6HB</a>
			XLNnet chassis with Protective cap, D type (IP54), Vertical PCB, Nickel Finish	Class D	<a href="#">RJXS8FG3VB</a>
				CAT5E	<a href="#">RJXS8FG5VB</a>
				CAT6	<a href="#">RJXS8FG6VB</a>

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, **B**ulk Packaged

SERIES PREFIX	RJX	=	Series Prefix
CONTACT LAYOUT	8	=	RJ45 type
GENDER	F	=	Receptacle housing
SHELL SERIES	D	=	D Type
TRANSMISSION CLASS	3	=	Class D
	5	=	CAT 5e
	6	=	CAT 6
TERMINATION	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
		=	
LOCKING MECHANISM	Blank	=	Latching
	P	=	Push lever supplied separately for customer installation (Contact factory for detailed fitting instructions)
PACKAGING	Blank	=	Individual
	B	=	Bulk packed



\*Note: LED colours are denoted left to right from the panel side front view. Refer Page 88

FIG. 1

FIG. 2

[illegible]

Technical drawing of a mechanical part, likely a bracket or base plate, showing dimensions and features. The part has a central rectangular cutout with rounded corners (R2.3) and a central slot. Dimensions include overall width 116.0, overall height 15.00, and various hole diameters (4 x Ø17.0, 2 x Ø8.0, Ø12). Other dimensions include 3.6, 2.2, 2.54 (1 TYP), 12.7, 4.44, 6.60, 7.05, 5.61, and 16.85.

[illegible][illegible][illegible]

Technical drawing of a circular part with the following dimensions and specifications:

- Overall diameter:  $\phi 22.0$  MIN
- Top hole:  $2 \times \phi 2.3$
- Bottom hole:  $2 \times \phi 2.7$
- Top hole diameter:  $\phi 2.3$
- Bottom hole diameter:  $\phi 2.7$
- Top hole spacing: 14.00
- Bottom hole spacing: 19.80
- Top hole offset: 4.25
- Bottom hole offset: 19.80

Technical drawing of a circular panel cutout. The drawing shows a circle with a diameter of  $\phi 22.00$  [0.866"]. Two small circles, each with a diameter of  $2 \sim \phi 2.70$  [0.106"], are positioned on the left and right sides of the main circle. The distance from the center of the main circle to the center of each small circle is 19.80 [0.780"]. The text "Panel cutout CL" is written below the drawing.

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# STANDARD DATA XLRnet CHASSIS RECEPTACLES

		VALUE		
		Class D	CAT5E	CAT6
GENERAL CHARACTERISTICS	Number of contacts	8		
	Contact Arrangement	RJ45		
	Termination	Printed Circuit Board (PCB) - through hole, Feedthrough, IDC Terminal		
	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		
	Max. Frequency	100Mhz	100MHz	250MHz
	Ethernet Standard	10/100 BASE-T	1000 BASE-T	10GBASE-T
	Transmission Spec.	EIA/ TIA568-C.2, ISO/IEC 11801, EN50173		
	PoE+	802.3at Type 2		
	LED Type	Round, single pole, indicator		
CLIMATIC CHARACTERISTICS	Protection Class	IP40 (with EMI/RFI shield)		
	Operating Temperature	-40°C to +80°C (-40°F to +176°F)		
MECHANICAL CHARACTERISTICS	Weight** - A & B Housing - Shielded Housing - D Shell	11g (0.024lb) 17g (0.037lb) 25g (0.055lb)		
	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		
MATERIALS	Connector Shell / Housing	Thermoplastic, DSM Stanyl UL94V-0, 30% GF / PA66 30% GF		
	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		

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

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