Amphe-Dante Adapters

Amphe-Dante are Dante™ audio to analogue audio adapters, each with one RJ45 Dante input, and one and two (respectively) AX series XLR analogue outputs in a molded housing. Amphe-Dante products enable simple connection of analogue equipment to a Dante network and can receive audio channels from a Dante network and provide studio-quality, low-latency audio via an XLR connector to analogue audio equipment. Any audio available on the Dante network can be routed via the XLR outputs to an amplifier, powered speaker, mixing console, digital signal processor (DSP), or other analogue audio device.

Amphe-Dante feature high-quality digital-to-analogue converters, and support a range of sample rates and bit depths. They can provide a hardware master clock for a Dante network. As with other Dante products, the freely available Dante Controller software application is used to automatically discover and configure Amphe-Dante devices connected to the Dante network. Device names, channel labels, signal routing and other parameters (for example, sample rate and latency) can be configured via the network using Dante Controller. A variety of network and clock synchronisation diagnostic tools are also available in Dante Controller.

Amphe-Dante products use Power over Ethernet (PoE). Power can be provided through the Ethernet cable from a PoE-capable network switch, or from a separate PoE injector.

Available Software Options (required)

Dante Controller

Dante Controller is a free software application that enables you to route audio and configure devices on a Dante network. As well as automatic device discovery, one-click signal routing and user-editable device and channel labels, Dante Controller provides essential device status information and powerful real-time network monitoring, including device-level latency and clock stability stats, multicast bandwidth usage, and customized event logging, enabling you to quickly identify and resolve any potential network issues.

Dante Via

Dante Via is powerful and easy-to-use software that delivers unprecedented routing of computer-based audio, allowing a wide range of applications and devices to be networked and interconnected, easily and inexpensively. Dante Via network-enables locally-connected USB and Firewire devices, and a huge range of software applications, allowing you to route computer-based audio across an existing Dante network, and create standalone Dante networks without dedicated Dante hardware.

Dante Virtual Soundcard

Dante Virtual Soundcard turns your computer into a Dante-powered workstation, seamlessly integrating your PC or Mac with Dante audio devices on your network. You can instantly connect to a Dante network to record, process and playout using any audio application and any combination of Dante-enabled devices.

Dante Controller

All software can be purchased and downloaded at
amphenolaudio.com/products/dante

Dante™ is a trademark of Audinate Pty Ltd. Audinate® is a registered trademark of Audinate Pty Ltd.

Data Connectors

Amphe-Dante Connectors

Features:
- Dante™ audio input
- One channel or Two channel analogue output
- Durable overmolded housing
- Resilient cable strain relief
- RJ45 metal connectors with integrated LED's
- AX Series XLR connectors

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	LENGTH	PART NUMBER
		Dante™ audio to analogue audio adapter, 0x1, RJ45 input, 1 channel XLR output.	500mm	RJD1112-0050
		Dante™ audio to analogue audio adapter, 0x2, RJ45 input, 2 channel XLR output.	500mm	RJD1212-0050

DANTE ECOSYSTEM

ETHERNET SWITCH

AMPHE-DANTE

AMPLIFIER

DANTE VIA™

ETHERNET SWITCH
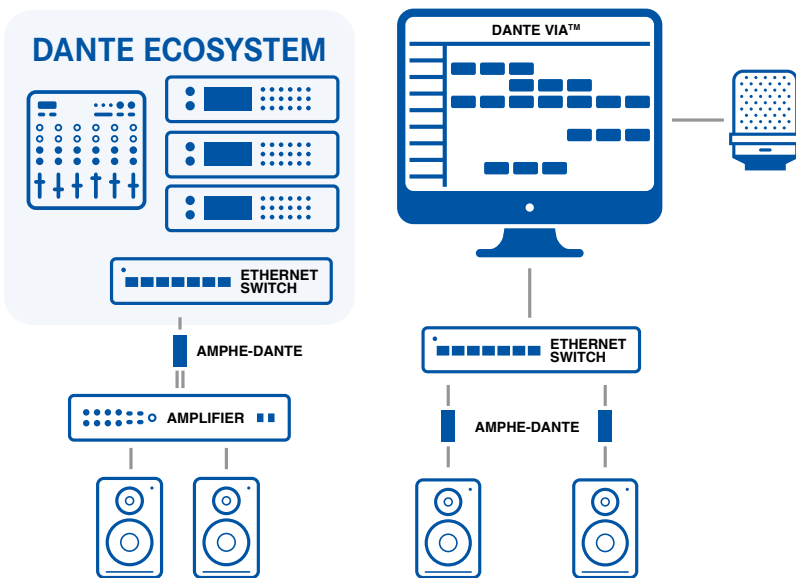
AMPHE-DANTE

Example 1

Example 2

Example 1 - Connecting analog audio equipment to a Dante system

Amphe-Dante can be used to easily integrate traditional analog audio equipment into a networked Dante system. A large ecosystem of Dante devices is available, including Dante-enabled mixing consoles, DSP units and wall plates. In the far left diagram, a zoned audio system is shown with traditional analog amplifiers and speakers connected to the Dante network using Amphe-Dante devices.

Example 2 - Routing local computer audio to traditional devices over a Dante network

In combination with Dante Via software, Amphe-Dante can create simple audio systems using computer software (e.g. iTunes®, Spotify®, etc) and USB audio devices (e.g. a microphone). In the adjacent near left diagram below, a simple background music system with a microphone input for announcements is shown, where Amphe-Dante is used to connect networked audio channels to a pair of traditional analog powered loudspeakers.

Dante™ is a trademark of Audinate Pty Ltd. Audinate® is a registered trademark of Audinate Pty Ltd.

SPECIFICATIONS

		RJD1112-XXXX*	RJD1212-XXXX*
GENERAL	Input Connector	1 x RJ45 (Ethernet)	
	Output Connector	1x XLR Male	2x XLR Male
ELECTRICAL	Power Consumption	< 2 Watt	
	Power over Ethernet (Required)	Class 1 IEEE 802.3af POE PD compliant	
ANALOG AUDIO	Output level (Balanced)	+4dBu @ 0dBFS	
	Output Impedance	150 ohm balanced or 75 ohm unbalanced	
	Frequency Response	20 Hz to 20 kHz (-/+0.5 dB)	
	Dynamic Range	> 100 dB	
	Signal to Noise	> 100 dB	
	Total Harmonic Distortion	< 0.05% at +4 dBu	
	Channel Separation	N/A	> 100 dB
	Channel Matching	N/A	< 0.25 dB
DANTE® AUDIO	Number of Channels	1 output channel	2 output channels
	Sample Rate	44.1 kHz, 48 kHz (default), and 96 kHz	
	Bit Depth	24 bits	
	Network Speed	100 Mbps	
	Network Interface	Latency from 1ms	
CLIMATIC	Protection Class	IP41	
	Operating Temperature	-5ºC to +60ºC (23ºF to +140ºF)	
MECHANICAL	Insertion and Withdrawal Force	≥10N - ≤30N	
	Weight Single Channel XLR Two Channel XLR	136g (0.299lb) 192g (0.423lb)	
MATERIALS	Housing	PVC 60P Black	

*XXXX denotes length

Rev 2 - 12/2017

LED STATUS

LEFT LED   **RIGHT LED**

FUNCTION	LEFT LED	RIGHT LED	COMMENT
Off	OFF	OFF	No Power
Device is booting	Solid GREEN	Solid RED	
Slave with sync	Blinking GREEN	Solid GREEN	Normal operation
Clock Master	Blinking GREEN	Blinking GREEN	Normal operation
Any runtime error	Blinking GREEN	Blinking RED	Normal operation
Identify	Alternating RED and GREEN	Alternating RED and GREEN	Blinking for 6 seconds (cycle every 0.5 seconds)
Failsafe (bootloader)	Blinking RED	Blinking RED	Failsafe, Corrupt Capability (red in DC)
Upgrade (bootloader)	Blinking ORANGE	Blinking ORANGE	Device is upgrading

Data Connectors

XLRnet RJ45 Ethernet Series

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

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.
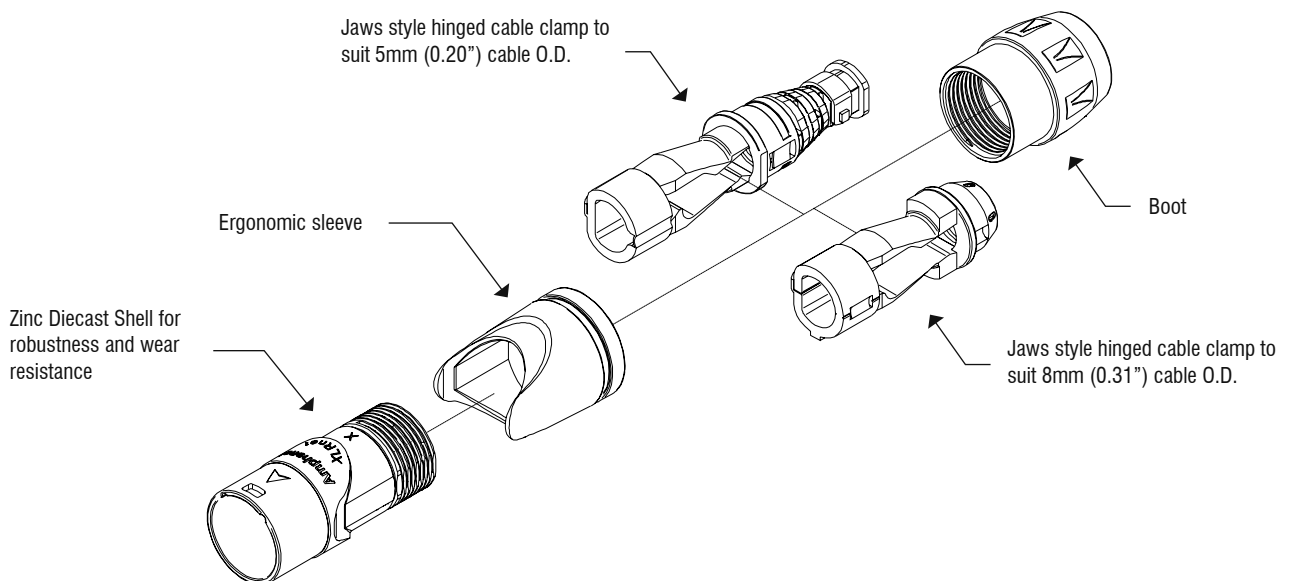- Coloured boots / Backshells

Specifications: Page 74
Part Number Breakdown : Page 74   **Assembly Instructions: Page 75**

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"] Ø21 [.81"]	XLRnet, XLR cable plug housing to suit preassembled RJ45 cables, Nickel Finish	Standard	RJX8M
			Bulk Pack	RJX8M BULK
	84 [3.31"] Ø21 [.81"]	XLRnet, XLR cable plug housing to suit preassembled RJ45 cables, Black Finish	Standard	RJX8MB
			Bulk Pack	RJX8MB BULK

ISO VIEW OF RJX8M

Jaws style hinged cable clamp to suit 5mm (0.20") cable O.D.

Ergonomic sleeve

Zinc Diecast Shell for robustness and wear resistance

Boot

Jaws style hinged cable clamp to suit 8mm (0.31") cable O.D.

PART NUMBER BREAKDOWN

XLRnet SERIES

SERIES PREFIX	CONTACT LAYOUTS	GENDER	SHELL FINISH	PACKAGING
RJX	8	M	B	BULK
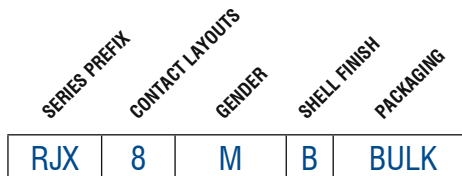
E. G . **RJX8MB BULK**
RJX (Series Prefix), **8** contacts, **M** (Cable Connector), **B** (Black Finish),
Bulk Packaged

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
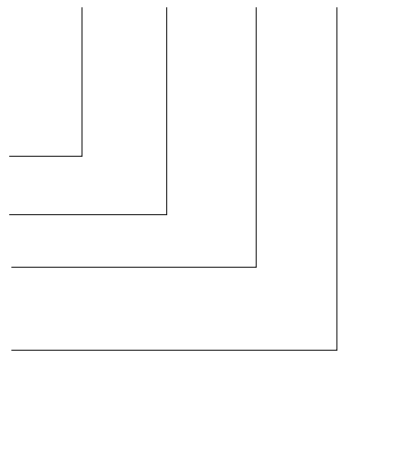
STANDARD DATA XLRnet SERIES

|		VALUE
GENERAL CHARACTERISTICS	Termination	Preassembled 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 2)	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

2) Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.
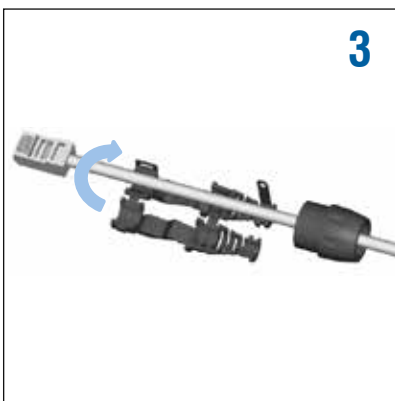
Rev 1 - 03/2013

XLRnet
SERIES CABLE
ASSEMBLY
INSTRUCTIONS

1
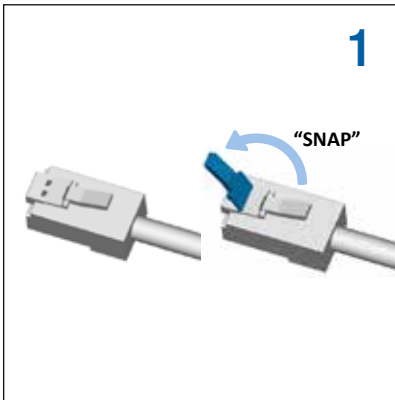
"SNAP"

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.
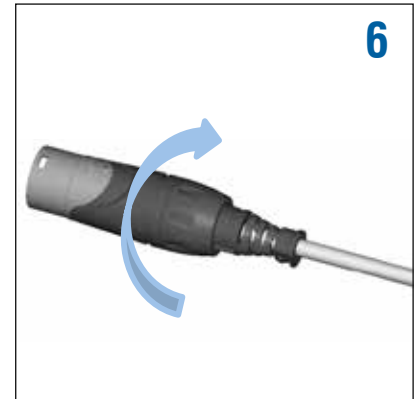
2
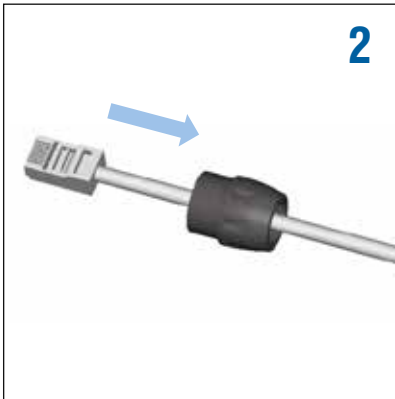
Slide the nut (backshell) onto the cable.

3

Install the cable clamp-boot.

4

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

5

Push clamp-boot & cable together into the shell

6

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

XLRnet SERIES
A & B Type

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 79
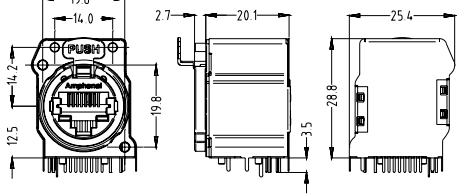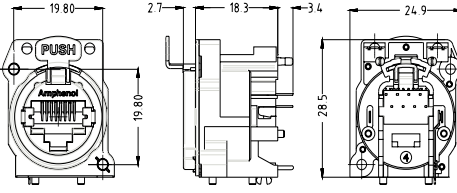**Specifications: Page 83**
PCB Footprints: Page 82
Recommended Fastener: Page 133
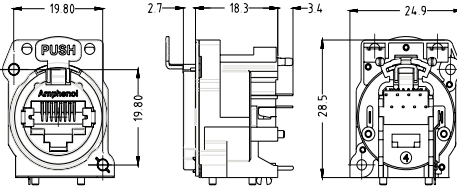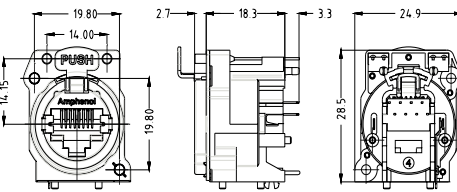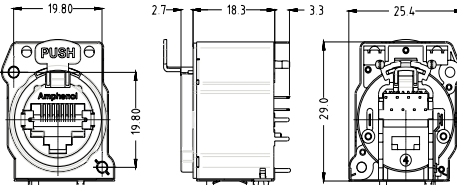
PRODUCT - FIGURE	DRAWING	DESCRIPTION	TYPE	LED* LHS/RHS		PART NUMBER
		XLRnet chassis, A type, Horizontal PCB	Class D	-	-	RJX8FA3HB
			CAT5E			RJX8FA5HB
			CAT6			RJX8FA6HB
		XLRnet chassis B type, Horizontal PCB	Class D	-	-	RJX8FB3HB
			CAT5E			RJX8FB5HB
			CAT6			RJX8FB6HB
		XLRnet chassis, B type, LEDs, Horizontal PCB, Bulk packed	CAT5E	R	G	RJX8FB5HRGB
				R	Y	RJX8FB5HRYB
				R	R	RJX8FB5HRRB
				G	R	RJX8FB5HGRB
				G	Y	RJX8FB5HGYB
				U	U	RJX8FB5HUUB
			CAT6	R	G	RJX8FB6HRGB
				R	Y	RJX8FB6HRYB
				R	R	RJX8FB6HRRB
				G	R	RJX8FB6HGRB
				G	Y	RJX8FB6HGYB
				U	U	RJX8FB6HUUB
		XLRnet chassis, B type, Shielded Hood, Horizontal PCB, Bulk packed	Class D	-	-	RJX8FB3HEB
			CAT5E			RJX8FB5HEB
			CAT6			RJX8FB6HEB

*Note: LED colours are denoted left to right from the panel side front view. Refer page 82
R = Red, G = Green, Y = Yellow, U = Blue

PRODUCT - FIGURE	DRAWING _Dimensions in mm (inches)_	DESCRIPTION	TYPE	LED* LHS/RHS		PART NUMBER
		XLRnet chassis, B type, Shielded Hood, LEDs, Horizontal PCB, Bulk packed	CAT5E	R	G	RJX8FB5HRGEB
				R	Y	RJX8FB5HRYEB
				R	R	RJX8FB5HRREB
				G	R	RJX8FB5HGREB
				G	Y	RJX8FB5HGYEB
				U	U	RJX8FB5HUUEB
			CAT6	R	G	RJX8FB6HRGEB
				R	Y	RJX8FB6HRYEB
				R	R	RJX8FB6HRREB
				G	R	RJX8FB6HGREB
				G	Y	RJX8FB6HGYEB
				U	U	RJX8FB6HUUEB
		XLRnet chassis, A type, Vertical PCB	Class D	-	-	RJX8FA3VB
			CAT5E			RJX8FA5VB
			CAT6			RJX8FA6VB
		XLRnet chassis, B Type, Vertical PCB	Class D	-	-	RJX8FB3VB
			CAT5E			RJX8FB5VB
			CAT6			RJX8FB6VB
		XLRnet chassis, B type, LEDs, Vertical PCB, Bulk packed	CAT5E	R	G	RJX8FB5VRGB
				R	Y	RJX8FB5VRYB
				R	R	RJX8FB5VRRB
				G	R	RJX8FB5VGRB
				G	Y	RJX8FB5VGYB
				U	U	RJX8FB5VUUB
			CAT6	R	G	RJX8FB6VRGB
				R	Y	RJX8FB6VRYB
				R	R	RJX8FB6VRRB
				G	R	RJX8FB6VGRB
				G	Y	RJX8FB6VGYB
				U	U	RJX8FB6VUUB
		XLRnet chassis, B type, Shielded Hood, Vertical PCB, Bulk packed	Class D	-	-	RJX8FB3VEB
			CAT5E			RJX8FB5VEB
			CAT6			RJX8FB6VEB

*Note: LED colours are denoted left to right from the panel side front view. Refer page 82
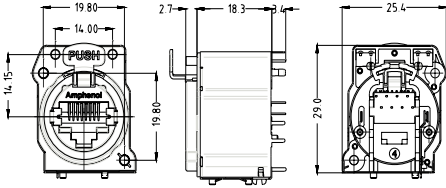R = Red, G = Green, Y = Yellow, U = Blue
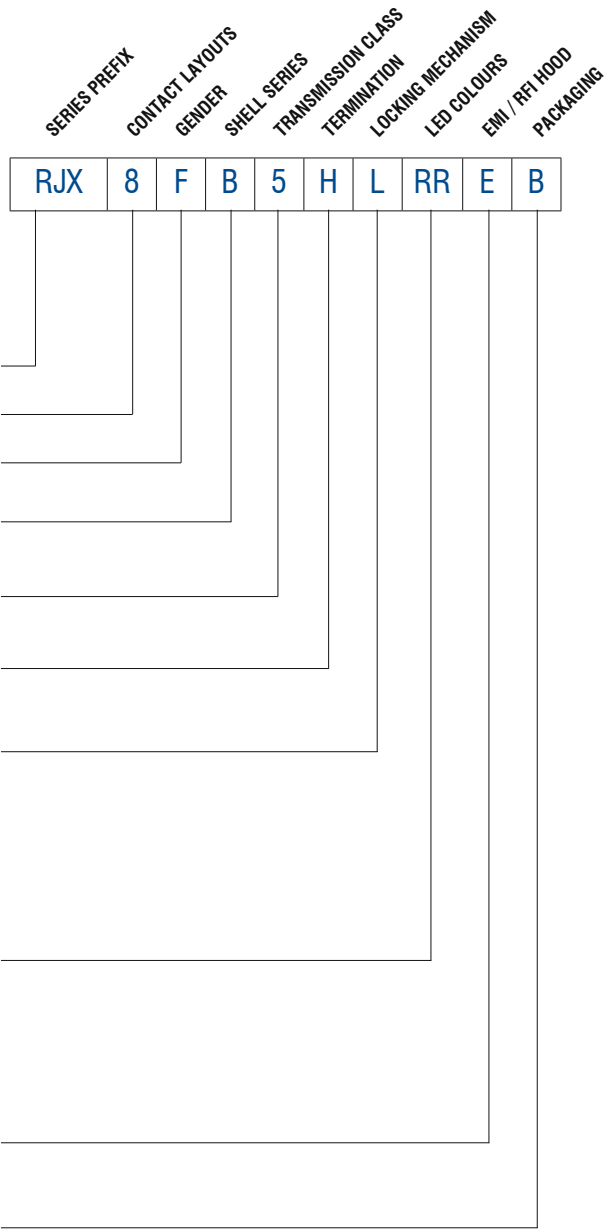
Data Connectors

XLRnet RJ45 Ethernet Series

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 82
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 **H**orizontal, **L**atchless, **R**ed - **R**ed LEDs, **EMI** / RFI Hood, **Bulk** Packaged.

SERIES PREFIX	CONTACT LAYOUTS	GENDER	SHELL SERIES	TRANSMISSION CLASS	TERMINATION	LOCKING MECHANISM	LED COLOURS	EMI / RFI HOOD	PACKAGING
RJX	8	F	B	5	H	L	RR	E	B

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

*Note: LED colours are denoted left to right from the panel side front view.
Refer Page 82

Data Connectors

XLRnet RJ45 Ethernet Series

XLRnet SERIES D Type

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 81
Specifications: Page 83
**PCB Footprints: Page 82**
Recommended Fastener: Page 133

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

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

| RJX | 8 | F | D | 3 | T | | B |

|			
SERIES PREFIX	RJX	=	Series Prefix
CONTACT LAYOUT	8	=	RJ45 type
GENDER	F	=	Receptacle housing
SHELL SERIES	D	=	D Type
TRANSMISSION CLASS	3 5 6	= = =	Class D CAT 5e CAT 6
TERMINATION	H I 110 T V	= = = = =	Horizontal Printed Circuit Board IDC Punch Down Block IDC 110 Punch Down Block Thru adaptor / Feedthrough Vertical Printed Circuit Board
LOCKING MECHANISM	Blank P	= =	Latching Push lever supplied separately for customer installation (Contact factory for detailed fitting instructions)
PACKAGING	Blank B	= =	Individual Bulk packed
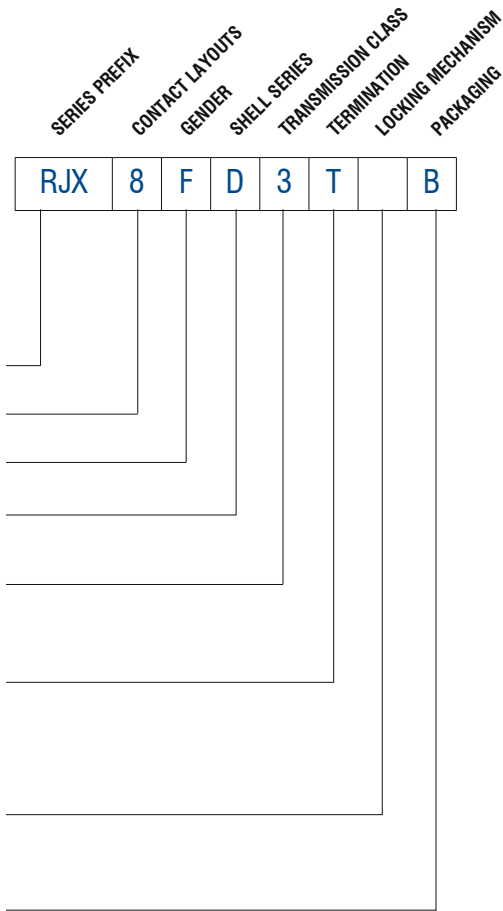
*Note: LED colours are denoted left to right from the panel side front view.
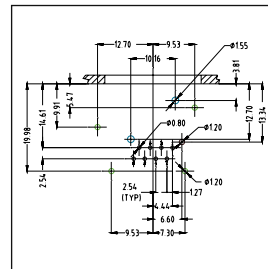Refer Page 82

XLRNET A, B AND D TYPE SERIES

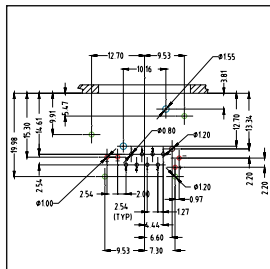*** Applicable to 3 (Class D), 5 (CAT5E) and 6 (CAT6), where available**
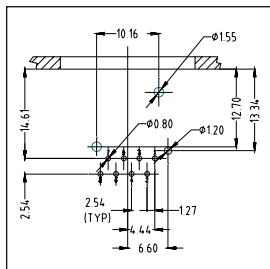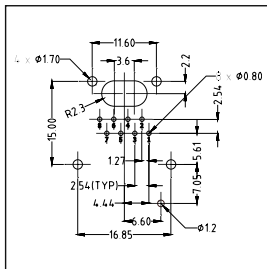
RJX8FA*H
RJX8FA*HB
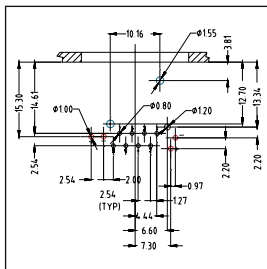
RJX8FB*HRGB
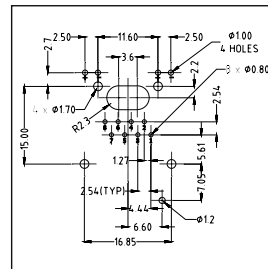RJX8FB*HRYB
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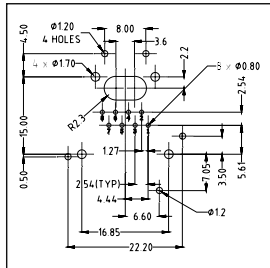RJX8FB*HGRB
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RJX8FB*HGGB

RJX8FB*HEB

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RJX8FB*HRYEB
RJX8FB*HRREB
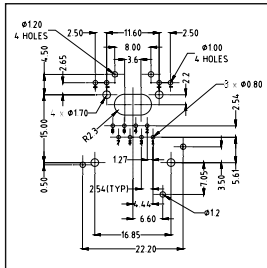RJX8FB*HGREB
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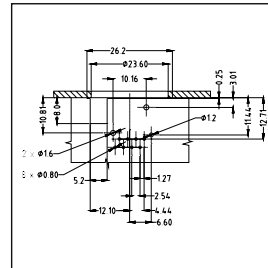RJX8FB*HGGEB

RJX8FA*VB
RJX8FB*VB

RJX8FB*VRGB
RJX8FB*VRYB
RJX8FB*VRRB
RJX8FB*VGRB
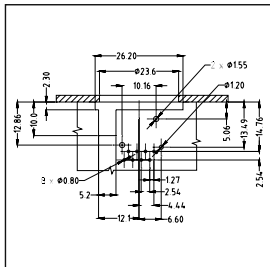RJX8FB*VGYB
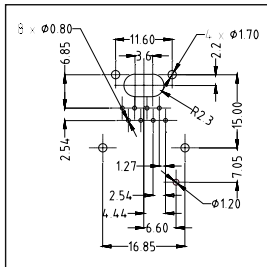RJX8FB*VUUB

RJX8FB*VEB

RJX8FB*VRGEB
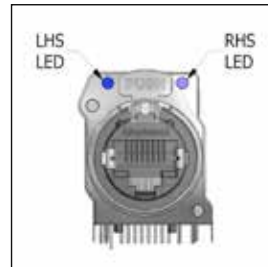RJX8FB*VRYEB
RJX8FB*VRREB
RJX8FB*VGREB
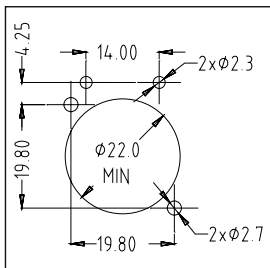RJX8FB*VGYEB
RJX8FB*VUUEB

RJX8FD*HB
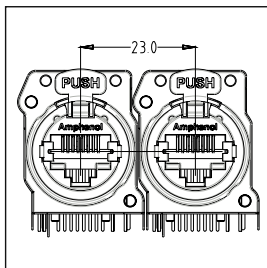(Front
Mounting)

RJX8FD*HB
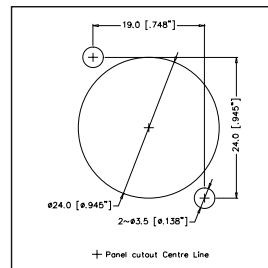(Rear
Mounting)

RJX8FD*VB

LED
Arrangement
(Front view)
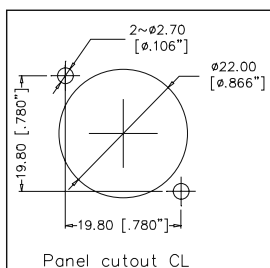
PANEL CUTOUT
A and B type
with LED's

XLRnet
MOUNTING
PITCH /
A and B Type

D Type

A and B Type

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	250MHz	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)	Diescast 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 3 - 05/2015

Data Connectors
USB/HDMI Chassis Mount

# USB/HDMI Series

Features:
- Data connectors
- Feedthrough adaptors
- USB 3 Type A
- HDMI receptacles

Options: Nickel or Black Shell Finish

PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	VARIATIONS	PART NUMBER
		USB 3.0, Feedthrough adapter, D Flange, Nickel Finish	Type A / Type A	AC-USB3-AA
		USB 3.0, Feedthrough adapter, D Flange, Black Finish	Type A / Type A	AC-USB3-AAB
		HDMI, Feedthrough adapter, D Flange, Nickel Finish	HDMI / HDMI	AC-HDMI-RR
		HDMI, Feedthrough adapter, D Flange, Black Finish	HDMI / HDMI	AC-HDMI-RRB
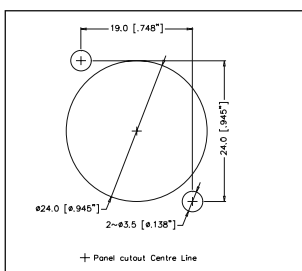
PANEL CUTOUT DIMENSIONS

FRONT VIEW

AC-**

PRODUCT SAFETY INFORMATION

This should be read in conjunction with Data Sheet information contained in individual product brochures. Failure to observe the advice in this information sheet and the operating conditions specified in the Data Sheets could result in hazardous situations.

1. Material Content and Physical Form

Electrical connectors do not usually contain hazardous materials. They contain conducting and non-conducting materials. Shells are manufactured in metal and plastic. Insulators can be formed in either natural rubber, synthetic rubber, plastic or glass insulating materials. Contact materials vary with the type of connector and its application. They are usually manufactured from either copper alloys, nickel, alumel, chromel or steel. In special applications, other alloys may be specified.

2. Fire Characteristics and Electric Shock Hazard

There is no fire hazard when the connector is correctly wired and used within the specified parameters. Incorrect wiring or assembly of the connector or careless use of metal tools or conductive fluids, or transit damage to any of the component parts may cause electric shock or burns. Live circuits must not be broken by separating mated connectors as this may cause arcing, ionisation and burning. Heat dissipation is greater at maximum resistance in a circuit. Hot spots may occur when resistance is raised locally by damage, e.g. cracked or deformed contacts, or broken strands of wire. Local overheating may also result from the use of the incorrect application tools or from poor quality soldering.

Overheating may occur if the ratings in the Data Sheets are exceeded and can cause breakdown of insulation and hence electric shock.

If heating is allowed to continue it intensifies by further increasing the local resistance through loss of temper or spring contact, formation of oxide film on contacts and wires, and leakage currents through carbonisation of insulation and tracking points. Fire can then result in the presence of combustible materials and this may release noxious fumes. Overheating may not be visually apparent. Burns may result from touching overheated components.

3. Handling

Care must be taken to avoid damage to any component parts of electrical connectors during installation and use. Although there are normally no sharp edges, care must be taken when handling certain components to avoid injury to fingers. Electrical connectors may be damaged in transit to customers, and damage may result in creation of hazards. Products should therefore be examined prior to installation/use and rejected if found to be damaged.

4. Disposal

Incineration of certain materials may release noxious or even toxic fumes.

5. Application

Connectors with exposed contacts should not be selected for use on the current supply side of an electrical circuit, because an electric shock could result from touching exposed contacts of an unmated connector. Voltages in excess of 30 V.A.C. or 42.5 V.D.C. are potentially hazardous and care should be taken to ensure that such voltages cannot be transmitted in any way to exposed metal parts of the connector body. The connector and wiring should be checked, before making live, to have no damage to metal parts or insulators, no solder blobs, loose strands, conducting lubricants, swarf, or any other undesired conducting particles. Circuit resistance and continuity check should be made to make certain that there are no low resistance joints or spurious conducting paths. Always use the correct application tools as specified in the Data Sheets. Do not permit untrained personnel to wire, assemble or tamper with connectors. For operation voltage please see appropriate national regulations.

Important General Information

A) Air and creepage paths / Operating voltage.

The admissible operating voltages depend on the individual applications and the valid national and other applicable safety regulations. For this reason the air and creepage path data are only reference values. Observe reduction of air and creepage paths due to PC board and/or harnessing.

B) Other important information

Amphenol Australia Pty Ltd continuously endeavours to improve its products. Therefore, products may deviate from the description, technical data and shape as shown in product brochures.

C) Assembly instructions

If applicable, special assembly instructions have been included in or on the connector packaging. See also separate instructions in product brochures.

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