AMPHE-DANTE ADAPTERS

Amphe-Dante are Dante™ audio to analogue audio adapters, available for Input, Output, AES3 and USB applications. Featuring premium quality Amphenol AX series XLR and RJ45 connectors in a robust molded housing.

Amphe-Dante products enable simple connection of analogue equipment to a Dante network and can receive and transmit audio channels from a Dante network and provide studio-quality, low-latency audio via XLR connectors to and from analogue audio equipment.

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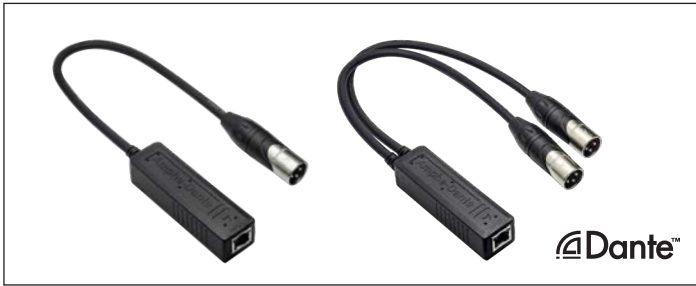
Dante Controller
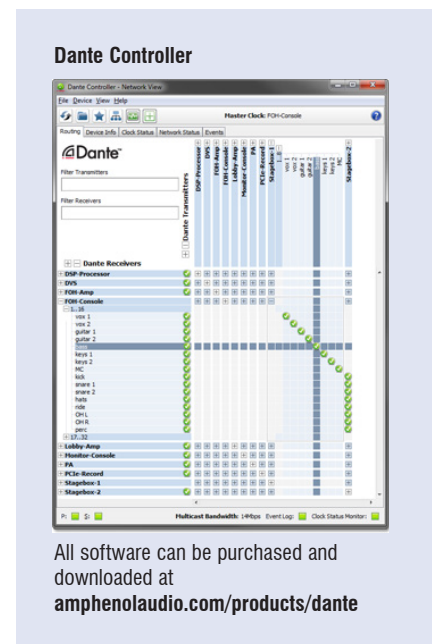
All software can be purchased and downloaded at
amphenolaudio.com/products/dante

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

Data Connectors

Amphe-Dante Adapters

Features:
- Dante™ to analogue XLR output adapters
- Line level analogue input to Dante™ audio output adapters
- Dante™ AES3 2 channel input/output adapters
- Dante™ USB input/output adapters
- One channel or Two channel analogue input or output
- Durable overmolded housing
- Resilient cable strain relief
- Shielded RJ45 metal connectors with integrated LED's
- Premium AX Series XLR connectors

PRODUCT	DRAWING Dimensions in mm (inches)	DESCRIPTION	PART NO.
ANALOGUE OUTPUT			
	500 [19.69] 72 [2.84] 101 [3.98] 28 [1.11] 24 [0.95]	Analogue Output - 1 channel, RJ45 input to XLR output, Durable overmolded housing	RJD1112-0050
	500 [19.69] 72 [2.84] 101 [3.98] 28 [1.11] 24 [0.95]	Analogue Output - 2 channel, RJ45 input to XLR output, Durable overmolded housing	RJD1212-0050
ANALOGUE INPUT			
	500 [19.69] 72 [2.84] 101 [3.98] 28 [1.11] 24 [0.95]	Analogue line level Input - 1 channel XLR input to RJ45 output, Durable overmolded housing	RJD2103-0050
	500 [19.69] 72 [2.84] 101 [3.98] 28 [1.11] 24 [0.95]	Analogue line level Input - 2 channel XLR input to RJ45 output, Durable overmolded housing	RJD2203-0050
AES3			
	500 [19.69] 72 [2.84] 101 [3.98] 72 [2.84] 28 [1.11] 24 [0.95]	AES3 Input / Output - 2 channel XLR I/O to RJ45 I/O, Durable overmolded housing	RJD32A3-0050
USB			
	500 [19.69] 101 [3.98] 28 [1.11] 24 [0.95]	USB Input / Output - 2 channel USB I/O to RJ45 I/O Durable overmolded housing	RJD32U1-0050

SPECIFICATIONS

		ANALOG INPUT 1CH	ANALOG INPUT 2CH	ANALOG OUT-PUT 1CH	ANALOG OUT-PUT 2CH	AES3 I/O 2 IN 2 OUT	USB I/O 2 IN 2 OUT
GENERAL	Connectors	1 XLR-F	2 XLR-F	RJ45	RJ45	RJ45	RJ45
		RJ45	RJ45	1 XLR-M	2 XLR-M	1 XLR-M, 1 XLR-F	USB 2.0 Type A
ELECTRICAL	Power Consumption	< 2 Watt					
	Power over Ethernet (Required)	Class 1 IEEE 802.3af POE PD compliant					PoE or USB
ANALOG / DIGITAL AUDIO	Max Signal Level (Balanced)	**+24dBu** / +4dBu / 0dBu 0dBV / -10dBV		+18dBu / **+4dBu** / 0dBu 0dBV / -10dBV		-	-
	Impedance	20k Ohm balanced 10k Ohm unbalanced		150 Ohm balanced 75 Ohm unbalanced		110 Ohm balanced	-
	Frequency Response	20Hz to 20 kHz (+/-0.5db)		20Hz to 20 kHz (+/-0.5db)		-	-
	Dynamic Range	> 100dB		> 100dB		-	-
	Signal to Noise	> 100dB		> 100dB		> 135dB	-
	Total Harmonic Distortion	< 0.01% at +4dBu		< 0.01% at +4dBu		-	-
	Channel Separation	N/A	> 100 dB	N/A	> 100 dB		-
	Channel Matching	N/A	< 0.25 dB	N/A	< 0.25 dB		-
DANTE® AUDIO	Asynchronous Sample Rate Conversion	-		-		Yes	-
	Sample Rate	44.1 kHz, 48 kHz (default), and 96 kHz					48 kHz
	Bit Depth	24 bits					
	Network Speed	100 Mbps					
	Network Interface	Latency from 1ms					
	Network Transport	Dante Audio over IP, AES67 RTP					
CLIMATIC	Protection Class	IP40					
	Operating Temperature	-5ºC to +60ºC (23ºF to +140ºF)					
MECHANICAL	Insertion and Withdrawal Force	≥10N - ≤35N					
	Weight	136g (0.299lb)	192g (0.423lb)	136g (0.299lb)	192g (0.423lb)	192g (0.423lb)	110g (0.243lb)
MATERIALS	Housing	PVC 60P Black					

Rev 4 - 08/2018

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 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.
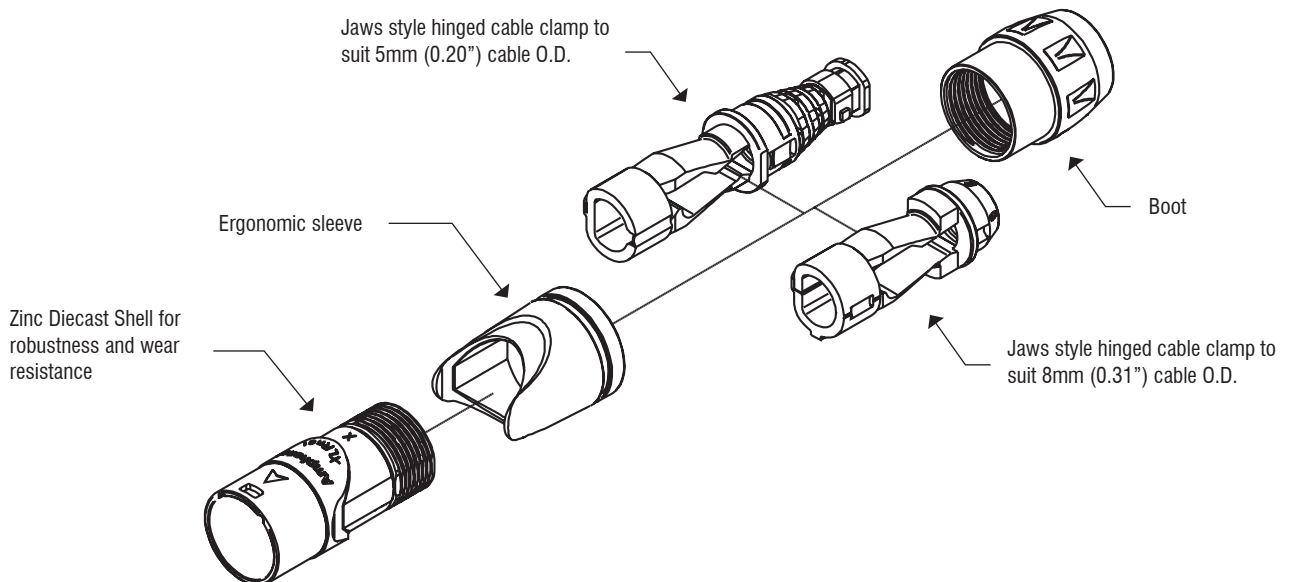- Coloured boots / Backshells

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"] 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.

Boot

Ergonomic sleeve

Zinc Diecast Shell for robustness and wear resistance

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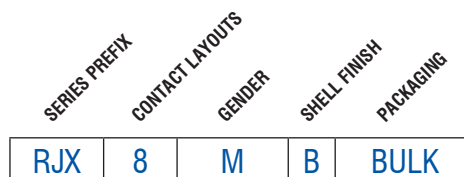
E. G . **RJX8MB BULK**
RJX (Series Prefix), **8** contacts, **M** (Cable Connector), **B** (Black Finish),
Bulk Packaged

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
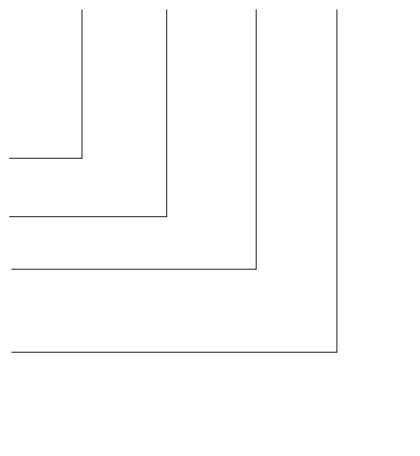
STANDARD DATA XLRnet SERIES

		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.
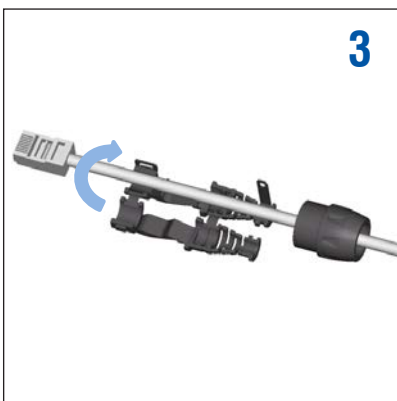
Rev 1 - 03/2013

XLRnet SERIES CABLE ASSEMBLY INSTRUCTIONS

1
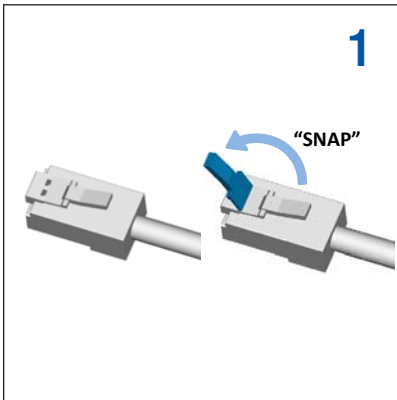
"SNAP"

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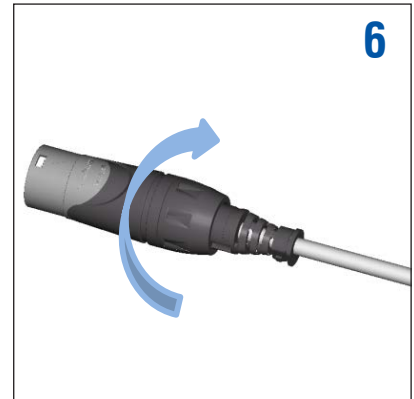
2
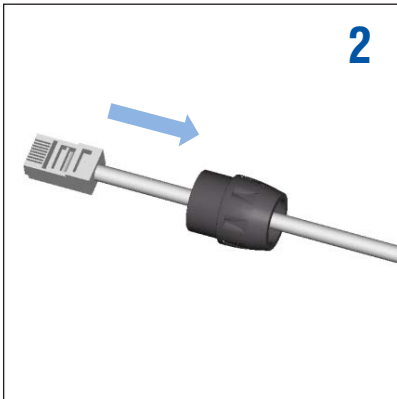
Slide the nut (backshell) onto the cable.

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.

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
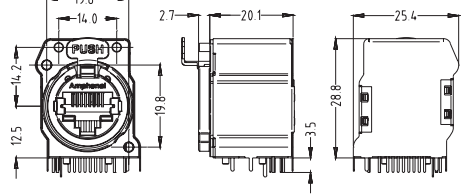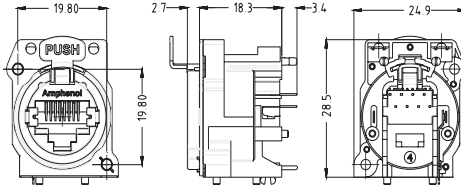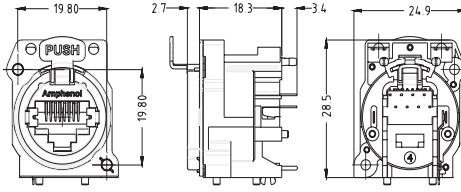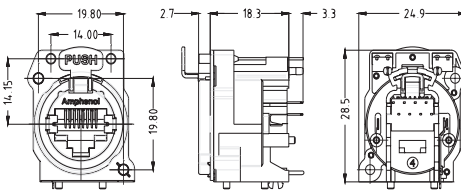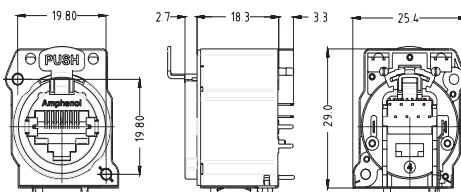
PRODUCT - FIGURE	DRAWING *Dimensions in mm (inches)*	DESCRIPTION	TYPE	LED* LHS/RHS		PART NUMBER
		XLRnet chassis, A type, Horizontal PCB	Class D	-	-	RJX8FA3HB
			CAT5E			RJX8FA5HB
			CAT6			RJX8FA6HB
		XLRnet chassis B type, Horizontal PCB	Class D	-	-	RJX8FB3HB
			CAT5E			RJX8FB5HB
			CAT6			RJX8FB6HB
		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 88
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 88
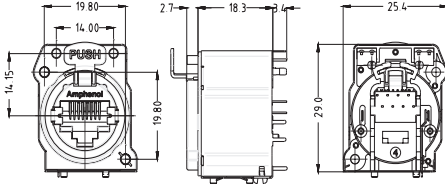R = Red, G = Green, Y = Yellow, U = Blue

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 **H**orizontal, **L**atchless, **R**ed - **R**ed LEDs, **E**MI / RFI Hood, **B**ulk 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
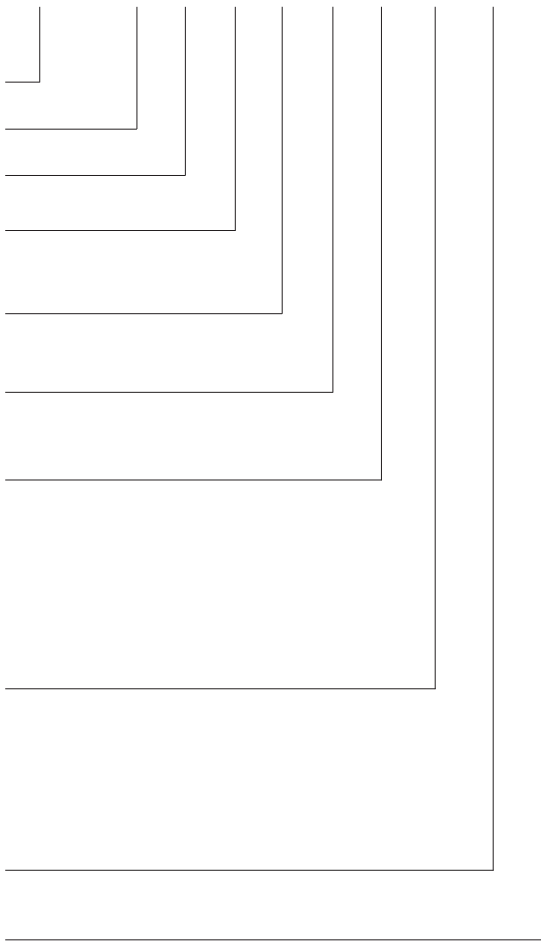
*Note: LED colours are denoted left to right from the panel side front view.
Refer Page 88

XLRNET 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
		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

Data Connectors

XLRnet Series D Type Chassis Receptacles

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

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	=	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
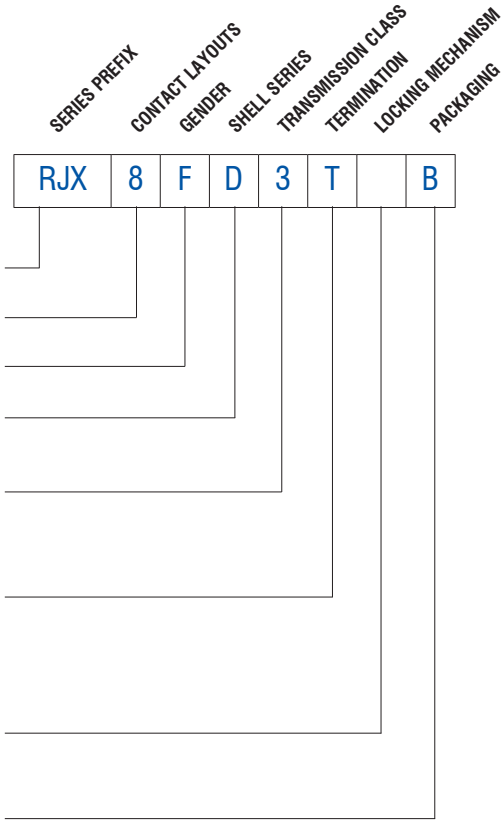
*Note: LED colours are denoted left to right from the panel side front view. Refer Page 88
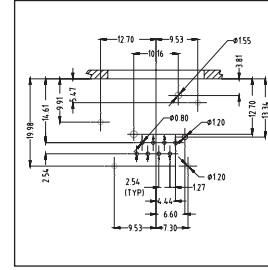
XLRNET A, B AND D TYPE SERIES

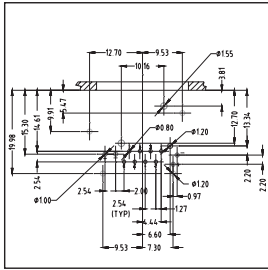*** Applicable to 3 (Class D), 5 (CAT5E) and 6 (CAT6), where available**
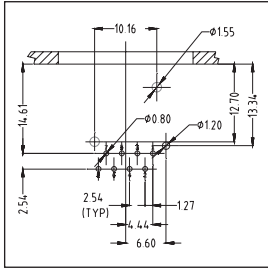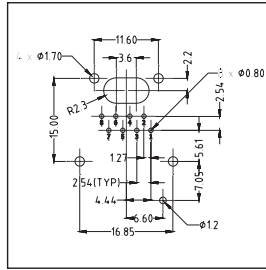
RJX8FA*H
RJX8FA*HB
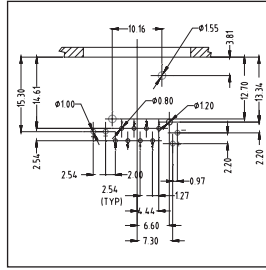
RJX8FB*HRGB
RJX8FB*HRYB
RJX8FB*HRRB
RJX8FB*HGRB
RJX8FB*HGYB
RJX8FB*HGGB

RJX8FB*HEB

RJX8FB*HRGEB
RJX8FB*HRYEB
RJX8FB*HRREB
RJX8FB*HGREB
RJX8FB*HGYEB
RJX8FB*HGGEB

RJX8FA*VB
RJX8FB*VB
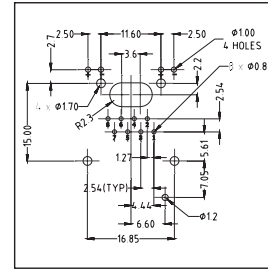
RJX8FB*VRGB
RJX8FB*VRYB
RJX8FB*VRRB
RJX8FB*VGRB
RJX8FB*VGYB
RJX8FB*VUUB
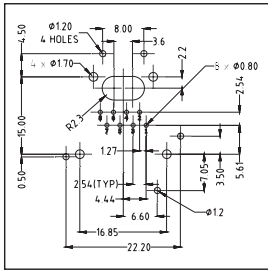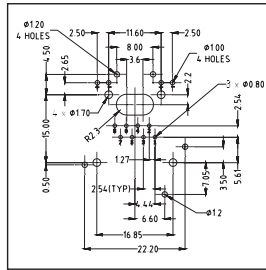
RJX8FB*VEB

RJX8FB*VRGEB
RJX8FB*VRYEB
RJX8FB*VRREB
RJX8FB*VGREB
RJX8FB*VGYEB
RJX8FB*VUUEB
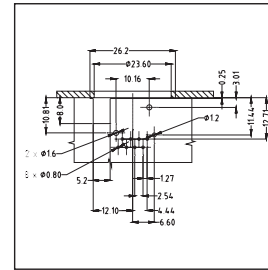
RJX8FD*HB
(Front Mounting)
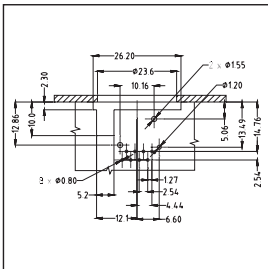
RJX8FD*HB
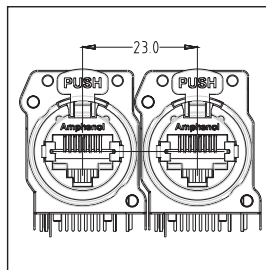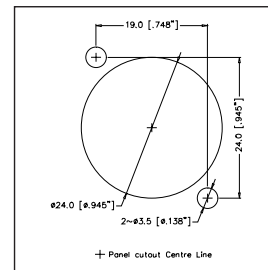**(Rear Mounting)**
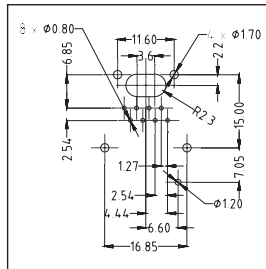
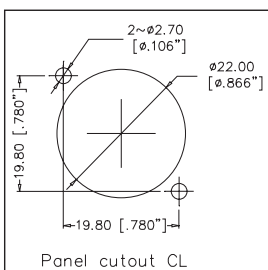**RJX8FD*VB**
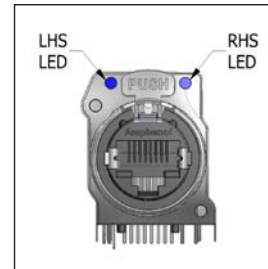
LED Arrangement (Front view)
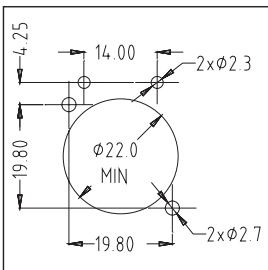
PANEL CUTOUT A and B type with LED's

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	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 (-40ºF to +176ºF)		
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 4 - 11/2021

Data Connectors

USB/HDMI Series

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

AC-**
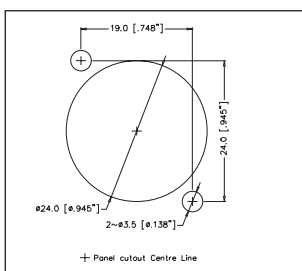
PANEL CUTOUT DIMENSIONS

FRONT VIEW

USB/HDMI TECHNICAL DATA

		VALUE	
GENERAL CHARACTERISTICS	Type	USB 3.0	HDMI 2.0
	Termination	Thru-adaptor	
	Max. Wire Gauge - Stranded Wire	AWG 14 - 2.5mm²	
	Flammability rating of insulating plastics	UL94V-0	
	Solderability, complies with	IEC 68-2-20	
	Environmental	Complies with EU RoHS 2 Directive 2011/65/EU	
ELECTRICAL CHARACTERISTICS	Current Carrying Capacity	10A (Depends on Mating Connector)	
	Typical Contact Resistance	≤10mΩ (Depends on Mating Connector)	
	Insulation resistance (initial) After Damp Heat Test	>2GΩ ≥ 10³ Meg Ω	
	Dielectric Strength	1500 V dc	
CLIMATIC CHARACTERISTICS	Protection Class	IP40	
	Operating Temperature	-25ºC to +75ºC (-13ºF to +167ºF)	
MECHANICAL CHARACTERISTICS	Insertion and Withdrawal Force	≥10N - ≤30N (depends on mating connector)	
	Cable O.D.	3mm to 7mm (0.118" to 0.275")	
	Mechanical Operations	1000 mating cycles	
	Weight - Cable Mount - Panel Mount	18g (0.039lb) 30g (0.066lb)	
MATERIALS	Connector Shell Material (Plugs)	Diecast Zinc Alloy EZDA No.3	
	Connector Shell Finish	Satin Nickel or Coloured Polyester	
	Insulators	PA66	
	Cable Bushing	Thermoplastic Polyurethane	
	Contacts	Brass Alloy	
	Plating	Gold Flash	

[1])Approximate weight only, does not include packaging. Please contact us for exact weight for shipping purposes.

Rev 2 - 03/2021