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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.
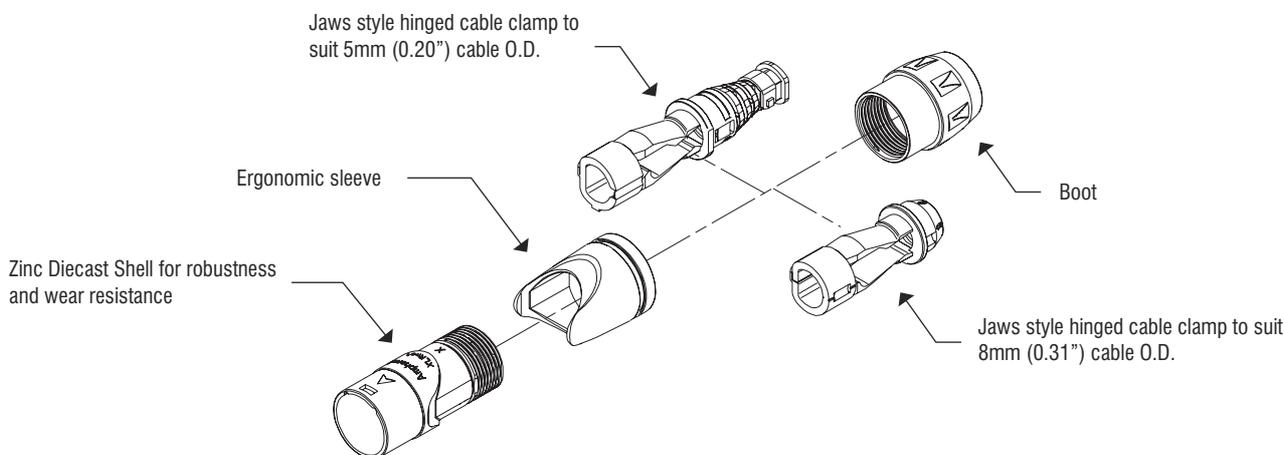• Coloured boots / Backshells

Specifications: page 82
Part Number Breakdown : page 82   **Assembly Instructions: page 83**

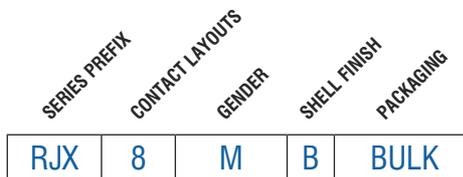**NOTE***RJ45 preassembled cable sold separately and is not included with the XLRnet connector.

PRODUCT - FIGURE	DRAWING	DESCRIPTION	VARIATIONS	PART NUMBER
		XLRnet, XLR cable plug housing to suit preassembled RJ45 cables, Nickel Finish	Standard	RJX8M
			Bulk Pack	RJX8M BULK
		XLRnet, XLR cable plug housing to suit preassembled RJ45 cables, Black Finish	Standard	RJX8MB
			Bulk Pack	RJX8MB BULK

Dimensions in mm (inches)

84 [3.31"]   Ø21 [.81"]

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.

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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
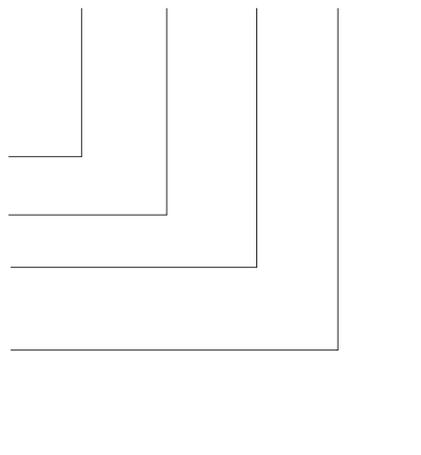
STANDARD DATA XLRnet SERIES

		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.

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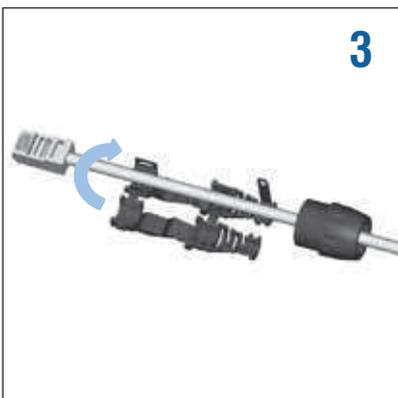
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XLRnet SERIES CABLE ASSEMBLY INSTRUCTIONS
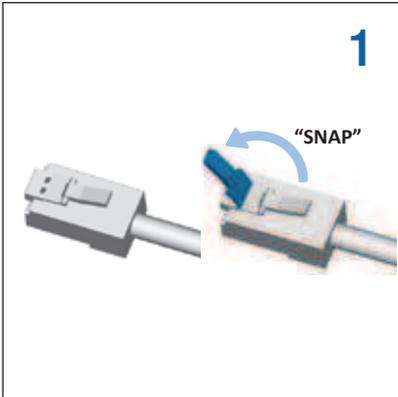
1 "SNAP"

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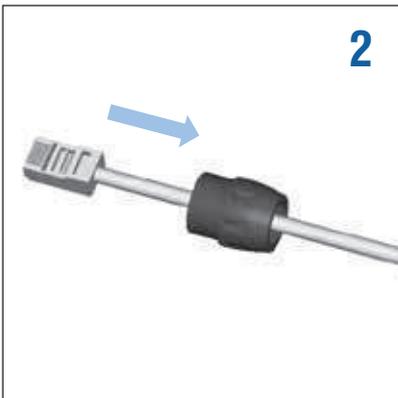
2
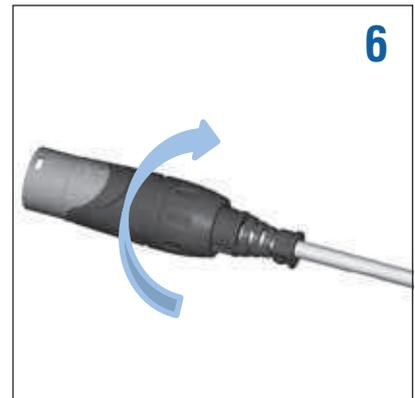
Slide the nut (backshell) onto the cable.

3

Install the cable clamp-boot.

4

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

5

& cable together into the shell

6

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

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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 or CAT 5E 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 or CAT 5E ethernet performance
- A or B type chassis housings
- Shielded or non-shielded
- LED indicators in a variety of colours.
- Compact design
- Cable plug housings
- Quick and simple installation

Options

- Horizontal 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.

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Features:
- RJ45 Class D or CAT 5e performance
- A or B type chassis housings
- Shielded or non-shielded
- LED indicators in a variety of colours.
- Horizontal PCB
- Mates with XLRnet cable plugs or standard RJ45 plug.

Part Number Breakdown: Page 86
Specifications: Page 88
PCB Footprints: Page 87
Recommended Fastener: Page 134

| PRODUCT - FIGURE	DRAWING Dimensions in mm (inches)	DESCRIPTION	PACK	LED* LHD/RHD		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	RJX8FB5HRGEB
				R	Y	RJX8FB5HRYEB
				R	R	RJX8FB5HRREB
				G	R	RJX8FB5HGREB
				G	Y	RJX8FB5HGYEB
				U	U	RJX8FB5HUUEB

*Note: LED colours are denoted left to right from the panel side front view. Refer page 87
R = Red, G = Green, Y = Yellow, U = Blue

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PART NUMBER BREAKDOWN

XLRnet A AND B TYPE

E. G . **RJX8FB5HLRREB**
RJX (Series Prefix), **8** (Contacts), Female **B** type, **H**orizontal, **L**atchless,
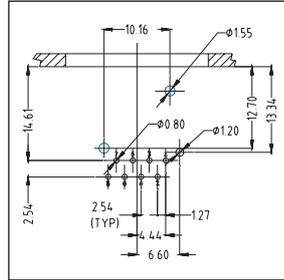**R**ed - **R**ed LEDs, **E**MI / RFI Hood, **B**ulk Packaged.
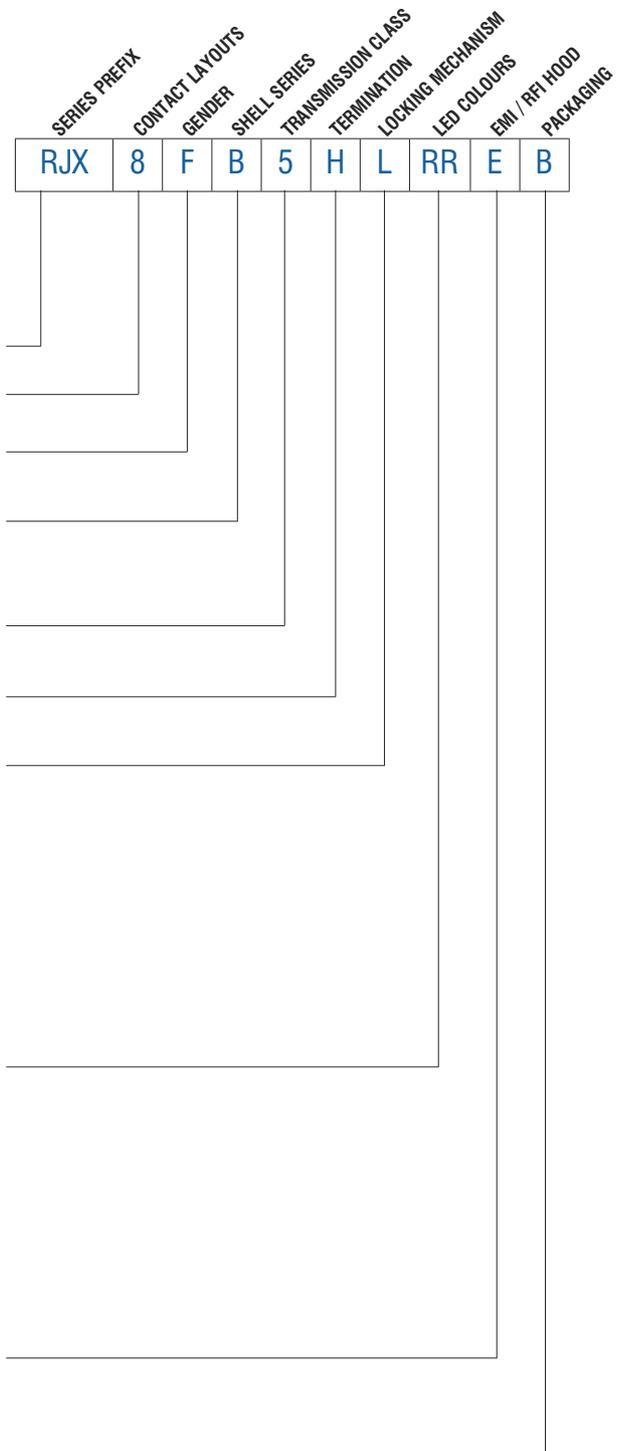
SERIES PREFIX	RJX	=	Series Prefix
CONTACT LAYOUT	8	=	RJ45 type
GENDER	F	=	Receptacle housing
SHELL SERIES	A	=	A Type
	B	=	B Type
TRANSMISSION CLASS	3	=	Class D
	5	=	CAT 5e
TERMINATION	H	=	Horizontal Printed Circuit Board
LOCKING MECHANISM	Blank	=	Latching
	L	=	Latchless
LED COLOUR SEQUENCE*	Blank	=	No 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

Part number diagram header labels: SERIES PREFIX, CONTACT LAYOUTS, GENDER, SHELL SERIES, TRANSMISSION CLASS, TERMINATION, LOCKING MECHANISM, LED COLOURS, EMI / RFI HOOD, PACKAGING

Part number: RJX 8 F B 5 H L RR E B

*Note: LED colours are denoted left to right from the panel side front view. Refer page 87

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XLRNET A AND B TYPE SERIES

RJX8FA3H
RJX8FA3HB

RJX8FB5H
RJX8FB5HB
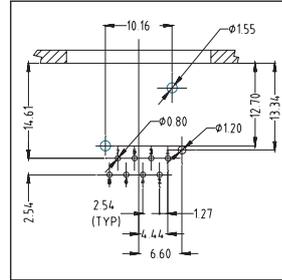
RJX8FB5HRGB
RJX8FB5HRYB
RJX8FB5HRRB
RJX8FB5HGRB
RJX8FB5HGYB
RJX8FB5HGGB
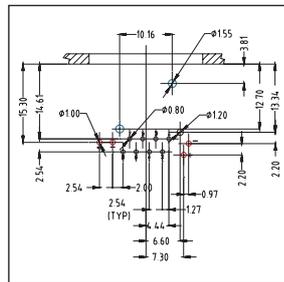
RJX8FB5HEB
RJX8FB5HEB
RJX8FB5HEB
RJX8FB5HEB
RJX8FB5HEB
RJX8FB5HEB
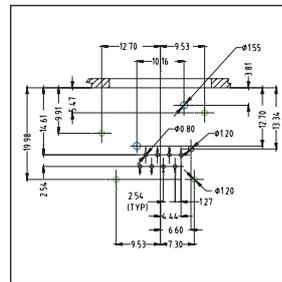
RJX8FB5HRGEB
RJX8FB5HRYEB
RJX8FB5HRREB
RJX8FB5HGREB
RJX8FB5HGYEB
RJX8FB5HGGEB
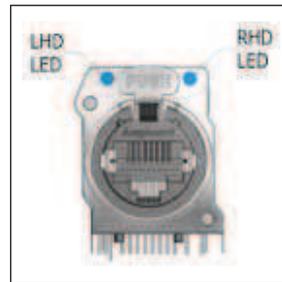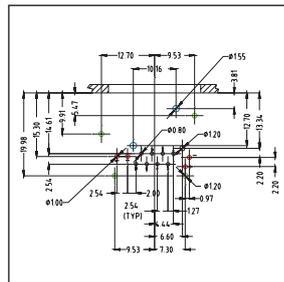
LED Arrangement (Front view)

XLRnet PANEL CUTOUT
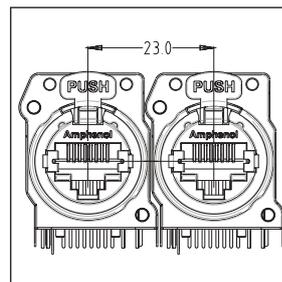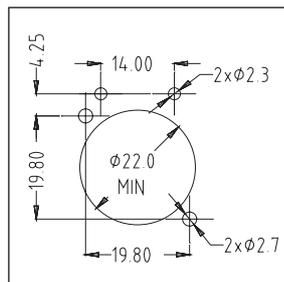
XLRnet MOUNTING PITCH

XLRnet PoE+ PSE Pinout Alternatives

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}

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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	
CLIMATIC CHARACTERISTICS	Protection Class	IP40 (with EMI/RFI shield)	
	Operating Temperature	-40°C to +85°C	
MECHANICAL CHARACTERISTICS	🅐 🅑 - Shielded Housing	11g (0.024lb) 17g (0.037lb)	
	Mechanical Operations	1000	
	Insertion and Withdrawal Force	≤ 21N	
	Latch	Spring Steel	
	Panel Thickness	3mm	
	Mounting screw torque max.	1.5Nm	
	Fastener	Self-Tapping screw M2.5	
MATERIALS	Connector Shell / Housing	Thermoplastic, DSM Stanyl UL94V-0, 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	0.38μm Au over 1.27μm Ni or 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 1 - 03/2013