

## PRODUKTINFORMATION

Vi reserverar oss mot fel samt förbehåller oss rätten till ändringar utan föregående meddelande

### ELFA artikelnr

<b>42-480-01 Modularjack 8/8</b>	<b>FRJA-408</b>
<b>42-480-19 Modularjack 8/8 2-pol</b>	<b>FRJA-408-02</b>
<b>42-480-50 Modularjack 8/8 m.filter</b>	<b>FRJA-418</b>
<b>42-480-68 Modularjack 8/8 filter 2-p</b>	<b>FRJA-418-02</b>
<b>42-482-09 Modularjack med LED</b>	<b>RJHS-5081</b>
<b>42-482-17 Modularjack med LED 2-p</b>	<b>RJHS-5081-02</b>
<b>42-482-66 Modularjack med LED</b>	<b>RJHS-5085</b>
<b>42-482-74 Modularjack med LED 2-p</b>	<b>RJHS-5085-02</b>
<b>42-483-32 Modularjack skärm m. LED</b>	<b>RJHS-5381</b>
<b>42-483-40 Modularjack skärm m.LED 2p</b>	<b>RJHS-5381-02</b>
<b>42-484-07 Modularjack skärm m.LED</b>	<b>RJHS-5385</b>
<b>42-484-15 Modularjack skärm m.LED 2p</b>	<b>RJHS-5385-02</b>
<b>42-484-64 Modularjack skärm m.LED 2p</b>	<b>RJSA-5381-02</b>
<b>42-484-72 Modularjack skärm m.LED 8p</b>	<b>RJSA-5381-08</b>
<b>42-485-06 Modularjack skärm m.LED 2p</b>	<b>RJSA-5385-02</b>
<b>42-485-14 Modularjack skärm m.LED 8p</b>	<b>RJSA-5385-08</b>
<b>42-486-05 Modularjack 6/6</b>	<b>RJ01-660-01</b>
<b>42-486-13 Modularjack 6/6, 2-pol</b>	<b>RJ01-660-02</b>
<b>42-486-21 Modularjack 6/6 skärmat</b>	<b>RJ01-662-01</b>
<b>42-486-39 Modularjack 6/6 skärmat 2p</b>	<b>RJ01-662-02</b>

# MODULAR JACKS



**Amphenol**  
[www.rjvista.com](http://www.rjvista.com)

# Contents

Amphenol Data/Telecom Products Group of Amphenol Canada Corp., a subsidiary of Amphenol Corporation, is an ISO 9001 certified facility located in Toronto, Canada. Our activities are dedicated to the design, development and manufacture of interconnect products intended for use in the data communications and telecommunications markets. Our expertise in understanding and supporting our customers' interconnect needs has earned Amphenol Canada a

reputation of quality and excellence among the world's leading users of electronic components.

This Modular Jack catalog represents some of our more popular products within this product category. Other product categories include, but are not limited to: D-Sub, Micro-Ribbon, USB, RF, Fiber-Optic, DIN 41612, mini-DIN, Headers and Sockets, Firewire, SCSI, VHDCI and Filtered Connector products.

## *RJ Vista*

### **EMI Quiet with LEDs**

#### **Single Port**

#### **Multi Port**

#### **Stacked**

#### **RJ/USB**

<b>RJHS</b>	<b>1-2</b>
<b>RJHS</b>	<b>3-4</b>
<b>RJHS</b>	<b>5-6</b>
<b>RJSA</b>	<b>7-8</b>
<b>RJHA</b>	<b>9-10</b>

## *Filtered & Shielded*

### **Single Port**

### **Multi Port**

<b>FRJ/FRJA</b>	<b>11-12</b>
<b>FRJA</b>	<b>13</b>

## *EMI Quiet*

### **6 Position**

<b>RJ01</b>	<b>14-15</b>
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## *Right Angle*

### **Single Port High Profile**

### **Single Port Low Profile**

### **Single Port Ultra Low Profile**

### **Multi Port Full Shield**

<b>RJA02</b>	<b>16</b>
<b>RJA03</b>	<b>17</b>
<b>RJA05</b>	<b>18</b>
<b>RJA09</b>	<b>19-20</b>

## *Top Entry*

### **Single Port Slim Profile**

### **Single Port Standard Profile**

<b>RJA06</b>	<b>21</b>
<b>RJA08</b>	<b>22</b>

## *Surface Mount*

### **Single Port**

### **Single Port Low Profile**

<b>RJA07</b>	<b>23-24</b>
<b>RJA15</b>	<b>25</b>

NOTICE: Specifications are subject to change without notice. Contact your nearest Amphenol sales office for the latest specifications. All statements, information and data given herein are believed to be accurate and reliable, but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied. Statements or suggestions

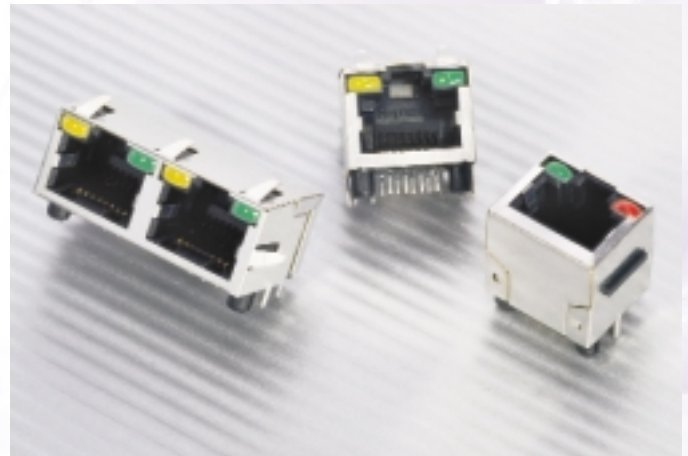
concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement, and are not recommended to infringe any patent. The user should not assume that all safety measures are indicated or that other measures may not be required. Amphenol and RJ vista are registered trademarks.



## EMI Quiet Modular Jacks with LED's



is a family of EMI Quiet Modular Jack Connectors with built-in LEDs, meets Ethernet CAT 5 performance. This product is ideal for LAN applications such as adapter cards and routers. Shielded and non-shielded versions are available, with a variety of LED colors, and ports.



## Specifications

### MATERIAL

Shield:	Copper Alloy; Tin/Lead Plated
Contacts:	Phosphor Bronze; Gold over Nickel
Insert:	Solder reflow process compatible (Complies with UL 94V-0)

### ELECTRICAL

Contact Resistance:	20 milliohms maximum
Insulation Resistance:	500 megohms minimum
Current Rating:	1.5 Amps
Voltage Rating:	125 Volts AC
Dielectric Withstanding Voltage:	1000 VAC, RMS. 60 Hz. 1 min.

### Standard LEDs: For 5.0 V Systems

Forward Voltage:	2.1 Volts Typical
Reverse Voltage:	6.0 Volts minimum
Luminous Intensity:	0.5 mCd minimum (at If=2mA)

### Low Current LEDs: For 3.3 V Systems

Forward Voltage:	2.0 Volts Typical
Reverse Voltage:	6.0 Volts minimum
Luminous Intensity:	1.0 mCd minimum (at If=2mA)

### Other Parameters:

Storage Temperature:	-20° C to 85° C
Lead Soldering Temperature:	260° C (5 sec)
Plating on Tails:	Tin-Lead (90-10) alloy
UL File # :	E135615
CSA File # :	LR68598

## Ordering Information

RJHS - X X X X - XX	
X	<b>VERSION</b> 3 - vertical mount, RJ45, 8 contacts 5 - 8 position, RJ45, flat contact 50 micro inch gold 6 - 6 position, RJ11, round contact 30 micro inch gold 7 - 6 position, RJ11, flat contact 50 micro inch gold 8 - 8 position, RJ45, PCMCIA, flanged, round contact 30 micro inch gold L - low profile, 8 position
X	<b>SHIELDING OPTION</b> 0 - no shield 3 - shielded 4 - one port shield similar to code 3 but with side ground tabs 7 - shield with ground lug (single port)
X	<b>NUMBER OF CONTACTS</b> 4 - 4 contacts (6 position) 6 - 6 contacts (6 position) 8 - 8 contacts (8 position) A - 10 contacts (10 position)
	<b>NUMBER OF PORTS</b> Blank - Single port 02 - 2 ports 03 - 3 ports 04 - 4 ports 05 - 5 ports 06 - 6 ports 07 - 7 ports 08 - 8 ports
	<b>LED DESIGNATION</b> 0 - blocked 1 - led 1 green, led 2 yellow 2 - led 1 green 3 - led 2 yellow 4 - led 1 yellow, led 2 green 5 - led 1 green, led 2 green 6 - led 1 yellow, led 2 yellow A - led 1 + 2 - bi-colour yellow/green B - led 1 + 2 - bi-colour red/green

Note: PCMCIA version is only available in single port  
Options for style, shield & contacts available.  
Contact Amphenol Canada for more information

For additional colour combinations  
refer to Chart RJHS Page 2

# RJHS Series

**RJ**  
vista™

EMI QUIET - WITH LEDS

## LED Designation

RJHS - 538 1\* - 08

### \* LED DESIGNATION CODE

LED CODE	LED 2 Left	LED 1 Right
0	Blocked	Blocked
1	Yellow	Green
2	Blocked	Green
3	Yellow	Blocked
4	Green	Yellow
5	Green	Green
6	Yellow	Yellow
7	Red	Green
8	Green	Red
9	Green	Blocked
A	BiC Gr/YI	BiC Gr/YI
B	BiC Rd/Gr	BiC Rd/Gr
C	BiC Rd/Gr	BiC Gr/YI
D	Green	BiC Gr/YI
E	Yellow	BiC Gr/YI
F	BiC Gr/YI	Yellow
G	BiC Gr/Or	BiC Gr/Or
H	BiC Gr/YI	Green
J	BiC Rd/Gr	Yellow
K	Yellow	BiC Gr/Or
L	BiC Rd/Gr	Red
M	Red	Yellow
N	BiC Gr/Rd	BiC Gr/YI
P	Green	BiC Rd/Gr
R	BiC Gr/Or	Green
T	Red	Red
V	BiC Rd/Gr	Green
W	Special Designation (add digit to part number)	
Z		

RJHS - 538 W - 08 2\*

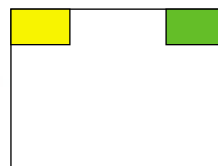
### \* SPECIAL LED DESIGNATION

SPECIAL DESIGNATION	LED 2 Left	LED 1 Right
0	See standard Design	
1	Red	Blocked
2	BiC Gr/YI	Yellow
3	Yellow	Red
4	Blocked	Red
5	Blocked	Yellow
6	Red	BiC Gr/YI
7		
8		
9		

### LOW CURRENT LED OPTIONS

A	Yellow	Yellow
B	Yellow	Green
C	Green	Yellow
D	Green	Green

LED 2

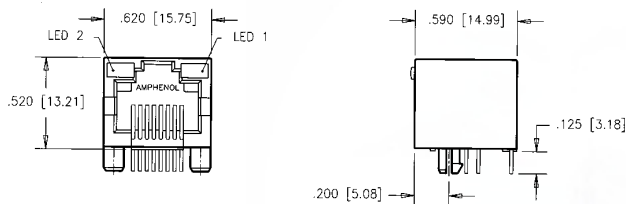


LED 1

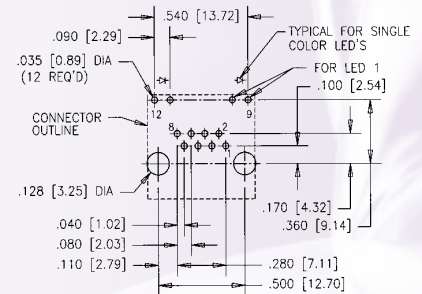
\* Contact Amphenol Canada for more information

## Single Port

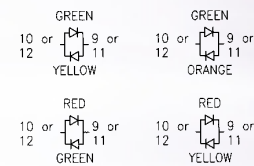
### NON-SHIELDED



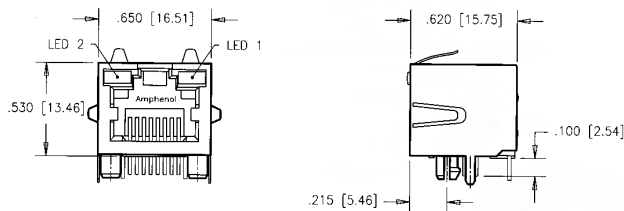
### PCB LAYOUT



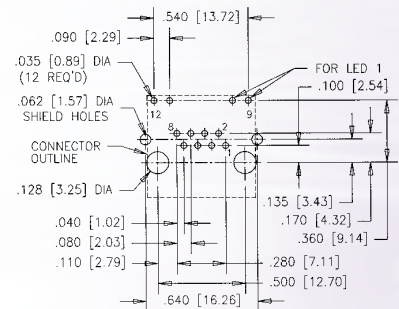
### BI-COLOUR LEDS



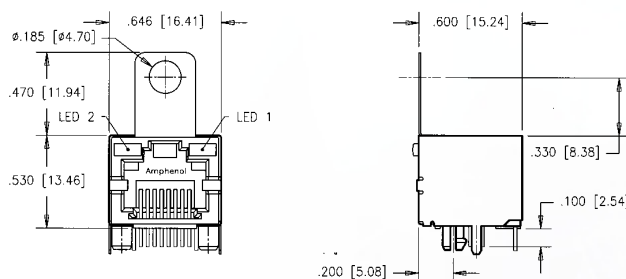
### SHIELDED WITH TOP & SIDE GROUND TABS



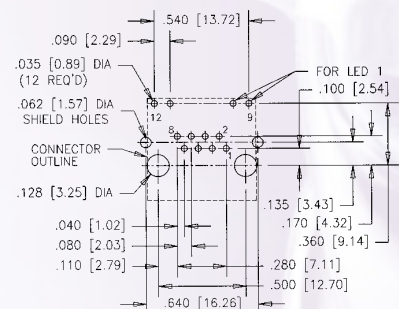
### PCB LAYOUT



### SHIELDED WITH GROUND LUG



### PCB LAYOUT

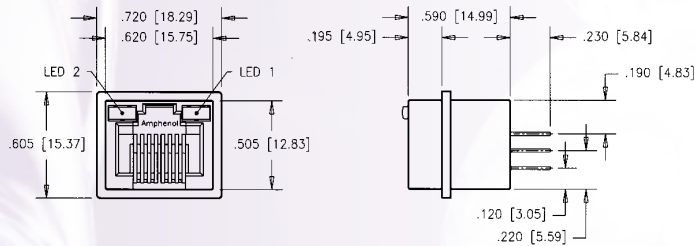


# RJHS Series

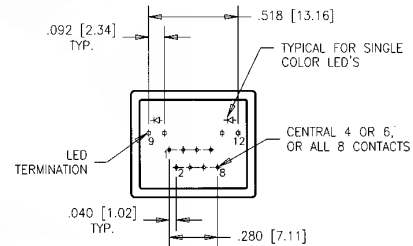
**RJ**  
vista™

EMI QUIET - WITH LEDS

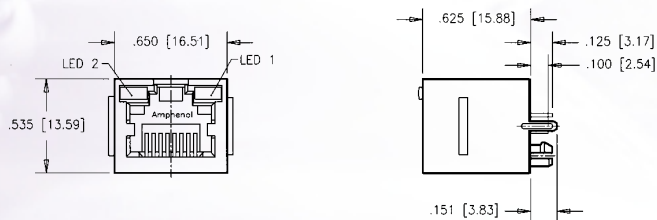
## PCMCIA (CABLE ASSEMBLY) SINGLE PORT



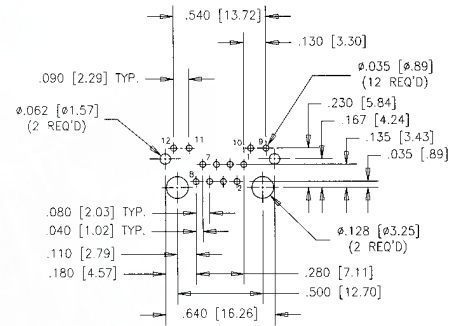
## BACK VIEW



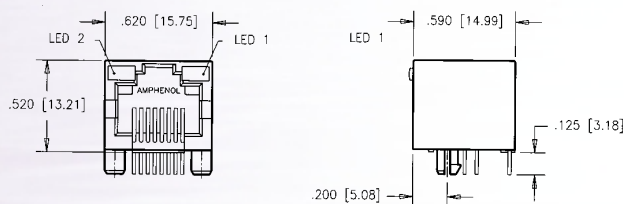
## VERTICAL MOUNT SINGLE PORT ONLY



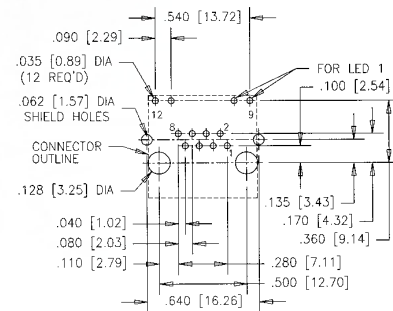
## PCB LAYOUT



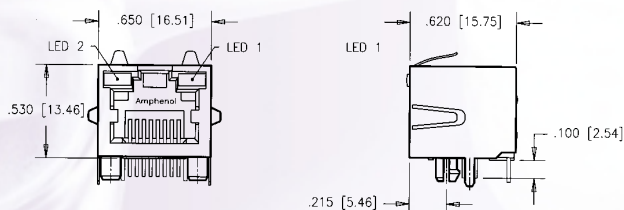
## LOW PROFILE SINGLE & 2 PORT



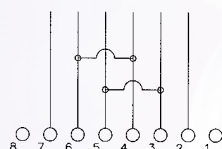
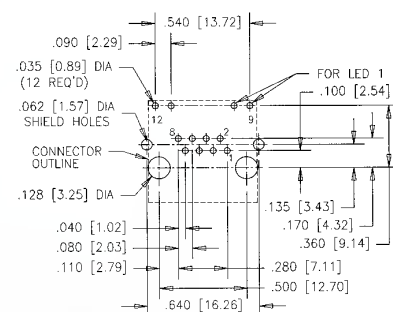
## PCB LAYOUT



## SHORTING BARS SINGLE & 2 PORT



## PCB LAYOUT



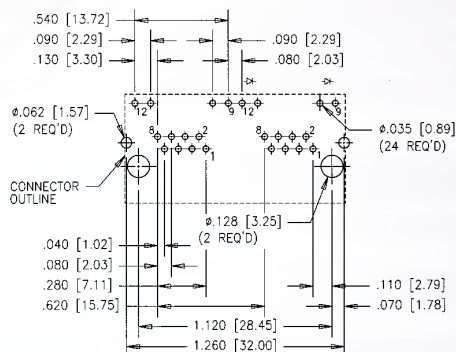
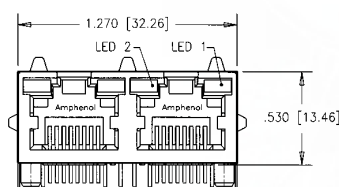
SHORTING BARS (CIRCUIT)

## EMI Quiet Modular Jacks with LED's Multiport

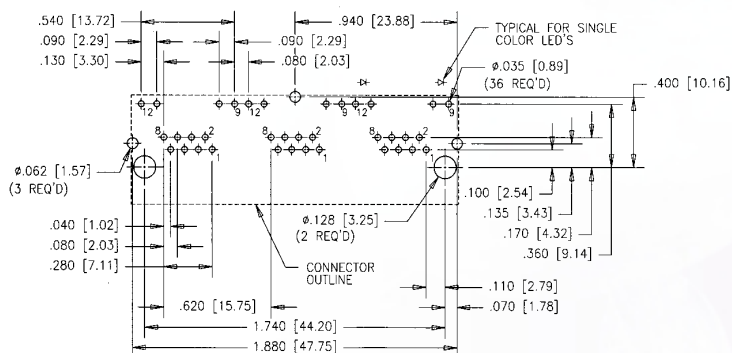
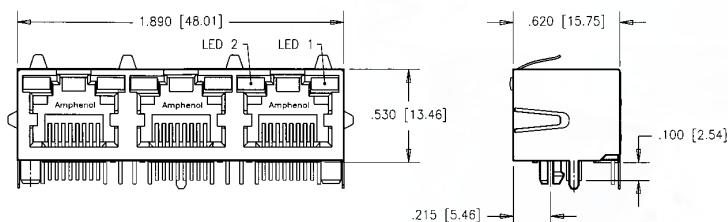
RJ vista™ is a family of EMI Quiet Modular Jack Connectors with built-in LEDs, designed for Category 5 ethernet performance. This product is ideal for LAN applications such as adapter cards and routers. Shielded and non-shielded versions are available, with a variety of LED colors, and ports.



### SHIELDED 2 PORT



### SHIELDED 3 PORT



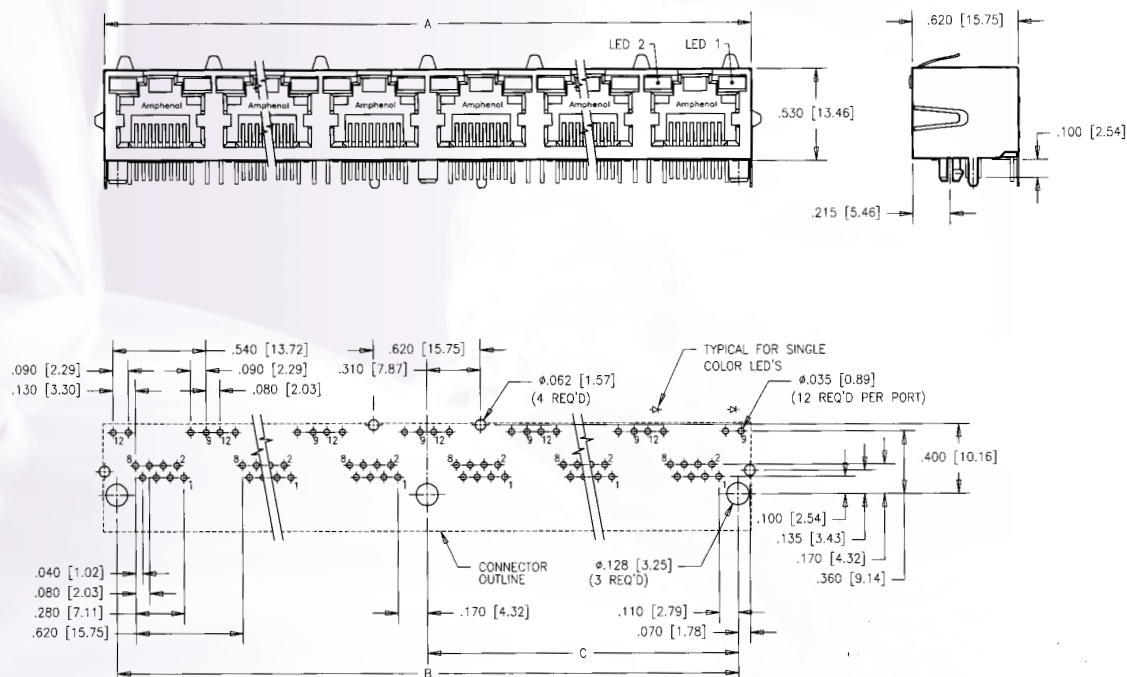


# RJHS Series

**RJ**  
vista™

EMI QUIET - WITH LEDS

SHIELDED WITH TOP AND SIDE GROUND TABS (AVAILABLE IN MULTI-PORT)



Number of ports	A	B	C
2	see page 5	see page 5	see page 5
3	see page 5	see page 5	see page 5
4	2.510[63.75]	2.360[59.94]	1.180[29.97]
6	3.750[95.25]	3.600[91.44]	1.800[45.72]
8	4.990[126.75]	4.840[122.94]	2.420[61.47]

## Amphenol RJ45 Stackable

Reduces component and labour costs by incorporating LED's into the connector.

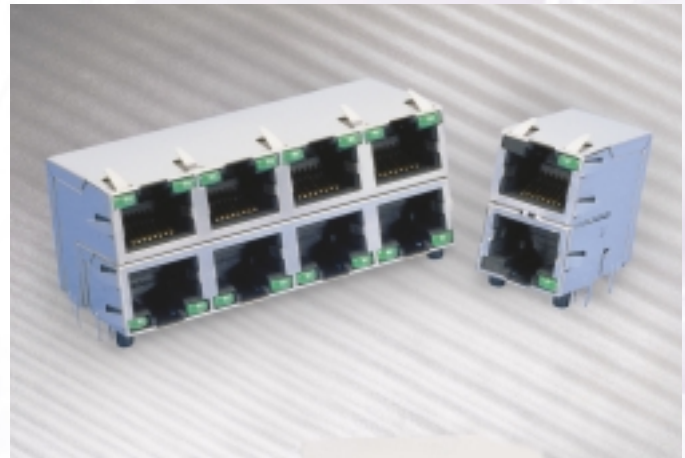
Meets Ethernet CAT 5 Performance

Stackable feature enables more ports with same board space.

For superior EMI performance, the option of configuring your connector with a ferrite filter is available.

Amphenol offers a wide variety of options:

- Ferrite filter
- Shielded & unshielded versions
- Variety of LED combinations
- Variety of ports

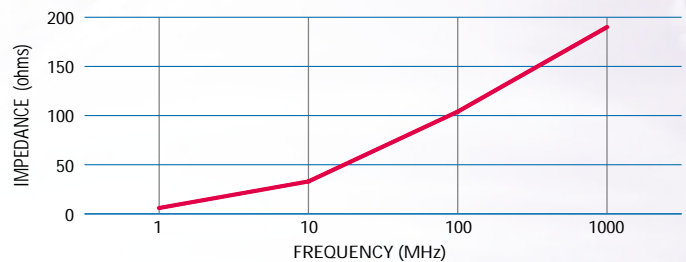


## Specifications

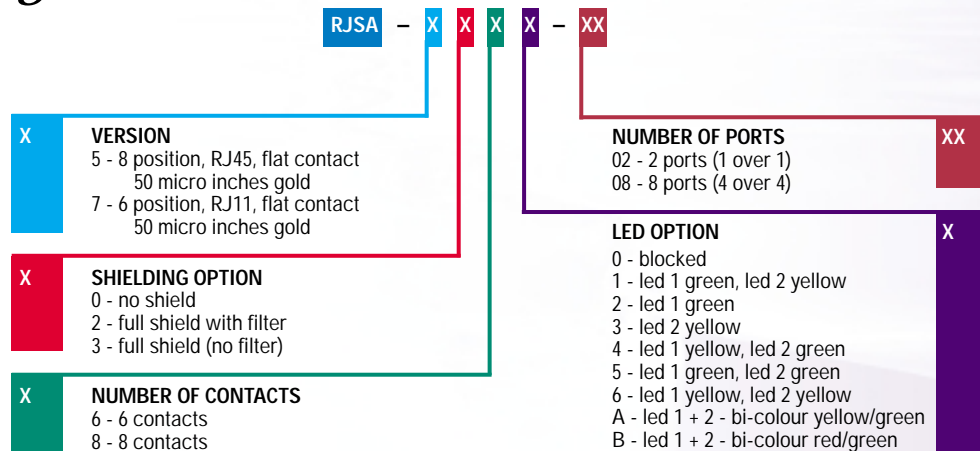
### MATERIAL

Please refer to RJHS specifications on page 1.

## Impedance Characteristics



## Ordering Information



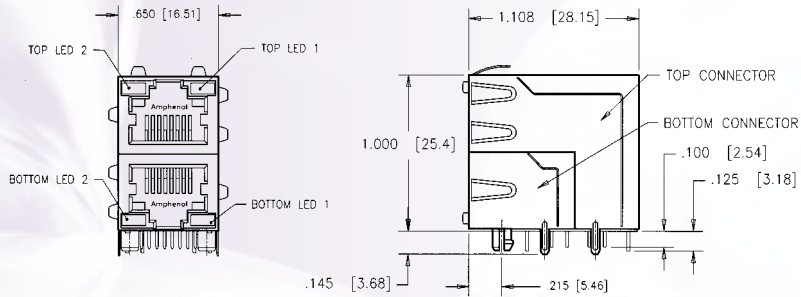
\* Filtering available - Please contact Amphenol for more information

\*\* additional LED codes available - see page 2

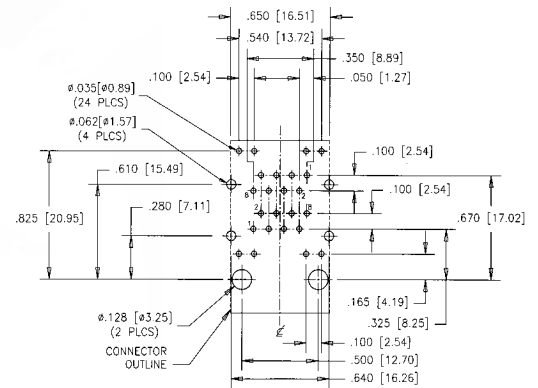
# RJA Series

## STACKED RJ VISTA™

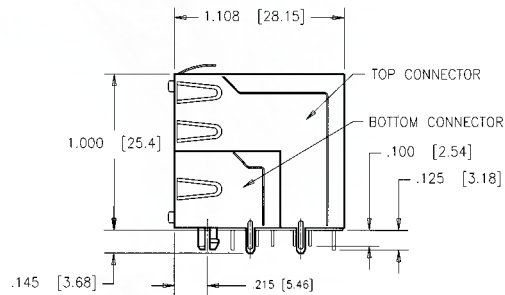
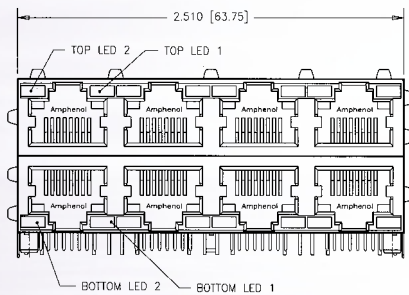
### 2x1 RJ45/RJ11



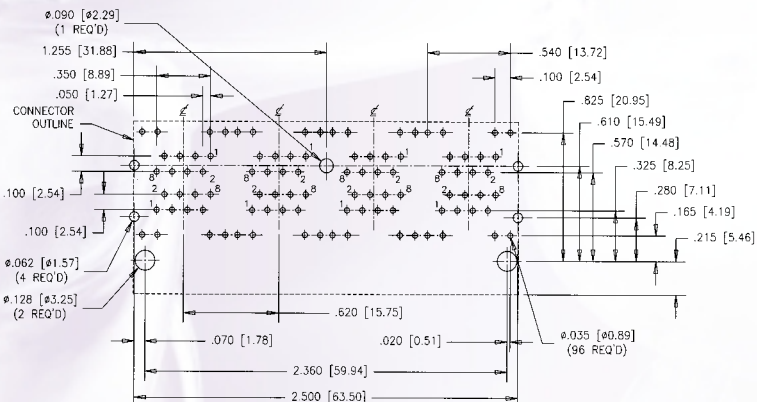
### PCB LAYOUT



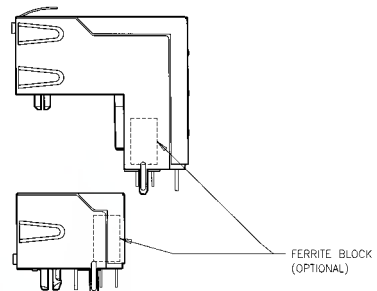
### 2x4 RJ45/RJ11



### PCB LAYOUT



### ASSEMBLY



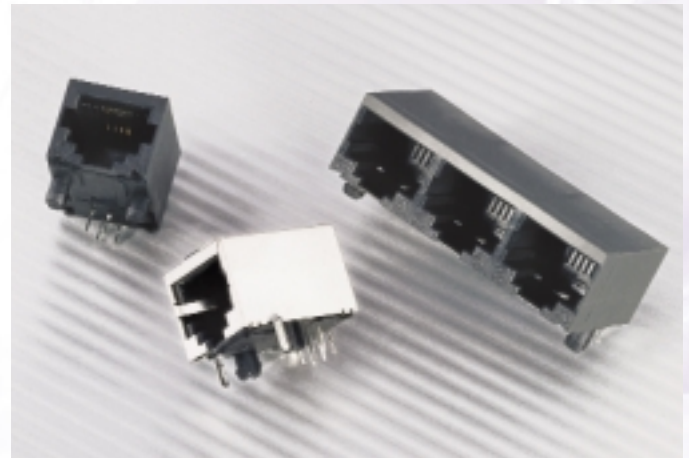
STACKABLE MODULAR JACK ASSEMBLY

# FRJ/FRJA Series

**FILTERED & SHIELDED**

## Modular Jack with Superior EMI Performance

The FRJ and FRJA series of shielded and filtered modular jacks offer low cost and effective EMC control within standard RJ-11 and RJ-45 connector footprints. EMC control is offered by a completely shielded connector and/or with the use of a high resistivity, high impedance ferrite block. No board layout changes are required for its use. Simply replace the standard non-filtered connector for superior EMC performance.



## Specifications

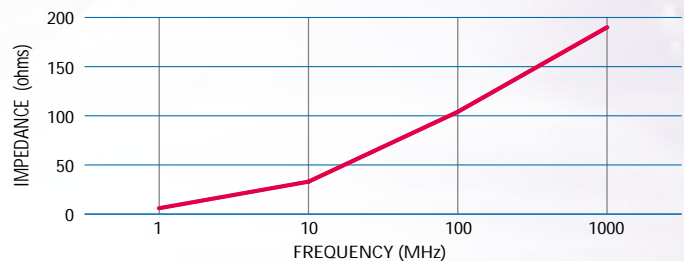
### MATERIAL

Shield:	Copper Alloy; Tin/Lead Plated
Contacts:	Phosphor Bronze; Gold over 30μ inches (0.76 microns) over Ni
Insert:	For FRJ, High Temperature Resistant Nylon. For FRJA, Thermoplastic Polyester (Complies with UL 94V-0)
Filter:	High Impedance, High Resistivity, Ferrite Block

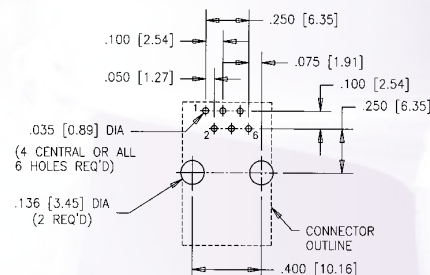
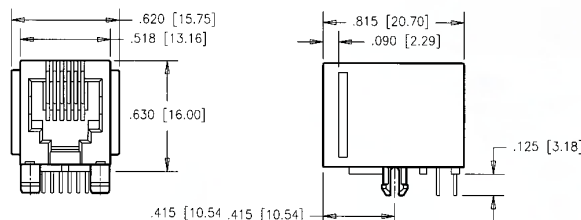
### ELECTRICAL

Contact Resistance:	20 Milliohms maximum
Insulation Resistance:	500 Megaohms minimum
Current Rating:	1.5 Amps
Voltage Rating:	125 Volts AC
UL File # :	E135615
CSA File #:	LR68598

## Impedance Characteristics



## 6 Position Filtered - High Profile



### 4 Contacts:

Standard Jack:	FRJ-104
Filtered:	FRJ-144

### 6 Contacts:

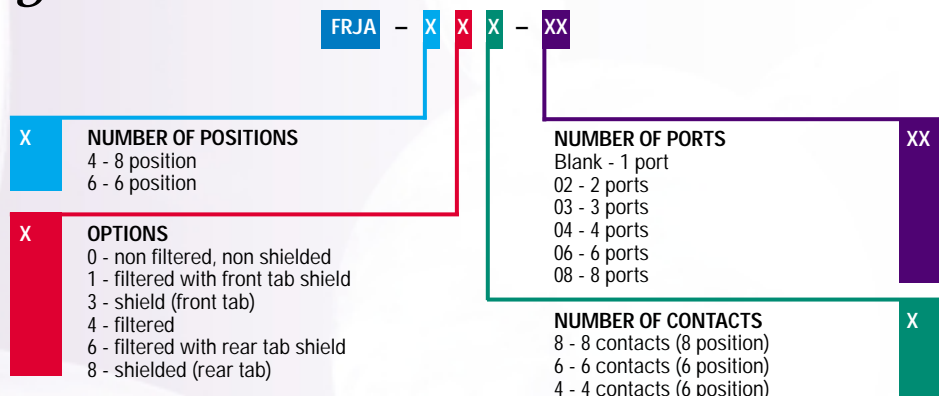
Standard Jack:	FRJ-106
Filtered:	FRJ-146



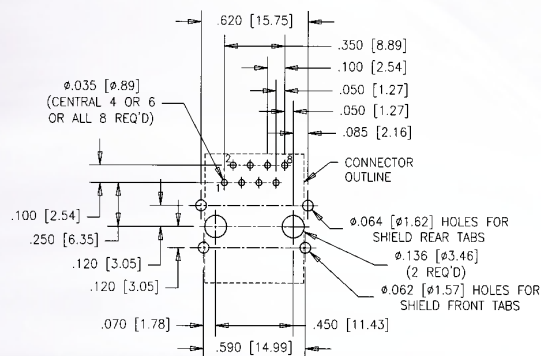
# FRJA Series

**FILTERED & SHIELDED**

## Ordering Information

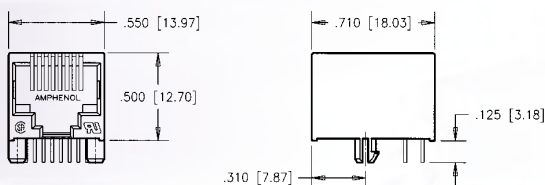


## PCB LAYOUT

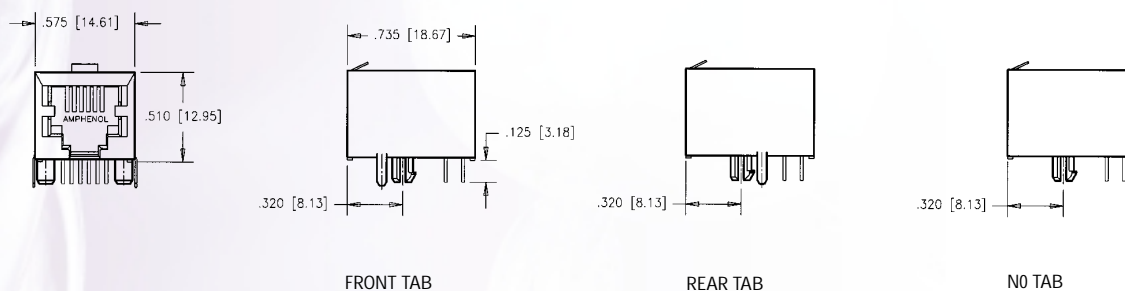


## Single Port (8 & 6 position)

### NON-SHIELDED

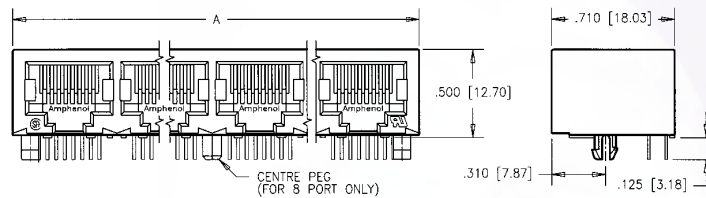


### SHIELDED

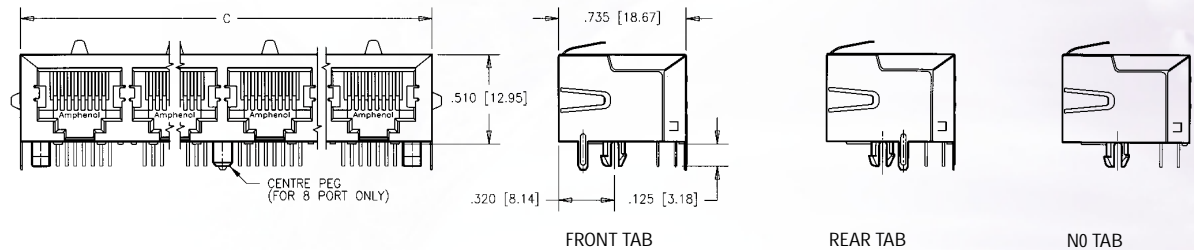


### Multi Port (8 & 6 position)

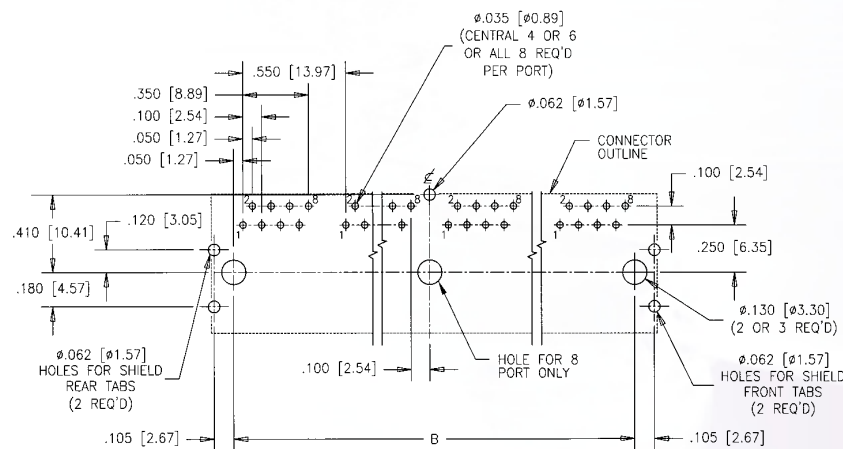
#### NON-SHIELDED



#### SHIELDED



#### PCB LAYOUT

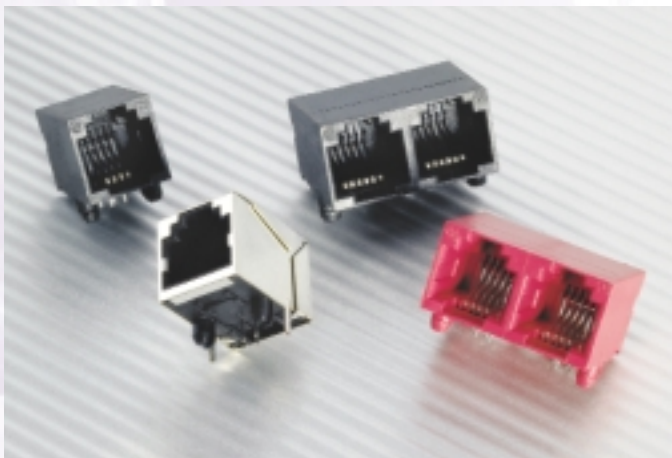


Number of ports	A	B	C
2	1.200[30.48]	1.000[25.40]	1.230[31.24]
4	2.300[58.42]	2.100[53.34]	2.330[59.18]
6	3.400[86.36]	3.200[81.28]	3.430[87.12]
8	4.500[114.30]	4.300[109.22]	4.530[115.06]

# RJ01 Series

EMI QUIET - 6 POSITION

MODEM CONNECTORS



## Modular Jack with Superior EMI Performance

The RJ01 series of 6-position jacks are designed for superior EMI performance. The inverted connector provides shorter leads, eliminating the EMI antenna effect of the standard connector footprint. Typical performance improvement over their standard connector counterparts is 5-10 dB over the frequency range.

## Specifications

### MATERIAL

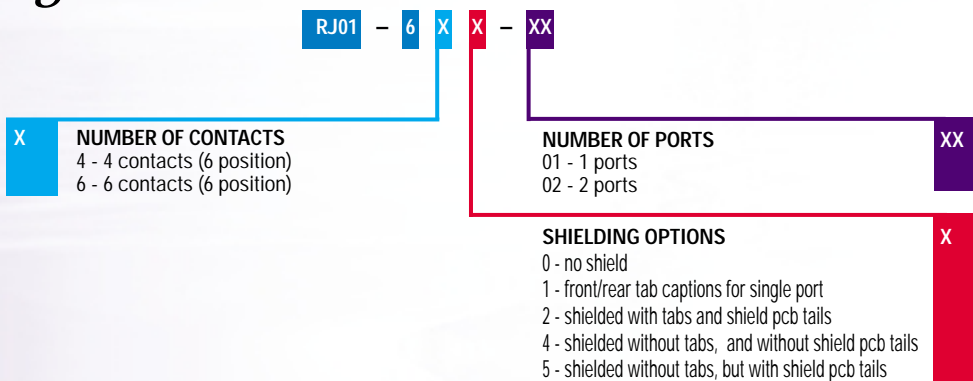
Housing:	High Temperature Resistant Nylon Flammability rating UL94V-0
Contacts:	Phosphor Bronze
Contact Plating:	50 $\mu$ inches (1.27 microns) Gold Over Nickel On Mating Area, Tin-Lead Alloy On Tails

Shield:	Copper Alloy, Tin-Lead Alloy Plated
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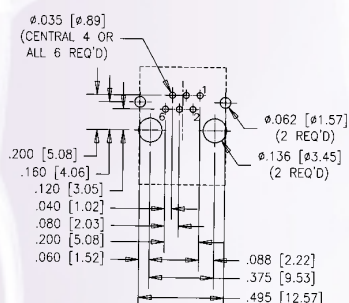
### ELECTRICAL

UL#	EI35615
CSA#	LR68598
EN#	60950

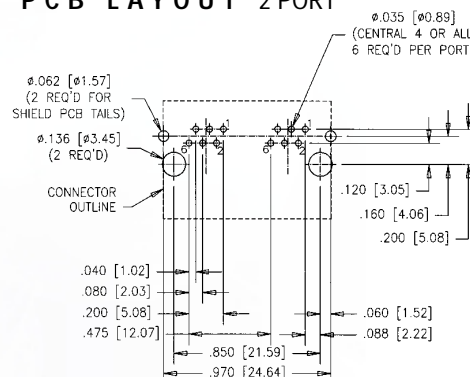
## Ordering Information



### PCB LAYOUT SINGLE PORT

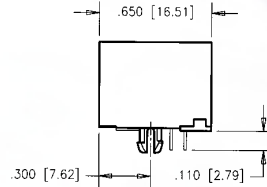
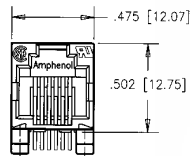


### PCB LAYOUT 2 PORT



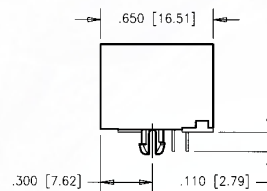
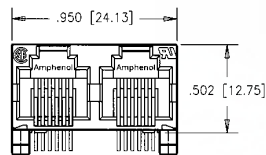
### Single Port

#### NON-SHIELDED



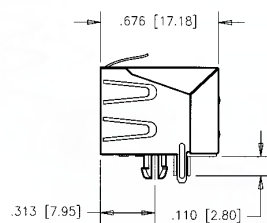
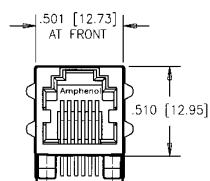
### 2 Port

#### NON-SHIELDED



### Single Port

#### SHIELDED



### 2 Port

#### SHIELDED

