# Modularjacks



Amphenol®
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# **Amphenol**

Amphenol Commercial 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 manufacturing 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 catalogue represents some of our more popular products within this product category. Other product categories include, but is not limited to: D-Sub, Micro-Ribbon, USB, Headers and Sockets, CoolPower connectors, VHDCI, Capacitively Decoupled BNC, filtered connectors (D-Subs and micro-ribbon), and rugged connectors (RJ, USB, D-Subs, and bulkhead adapters).

All of our modular jacks are RoHS compliant.

All drawings in this document are in inches [mm],unless otherwise indicated.



Can't find what you are looking for?

For other modular jack products, modifications, and customizations, please contact us at sales@amphenolcanada.com.

Note: All specifications are subject to change without notice. This catalogue is updated regularly. Please refer to www.amphenolcanada.com for the most recent edition.

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please visit www.amphenolcanada.com or

email sales@amphenolcanada.com



# **EMI Quiet Modular Jack with LEDs**

A series of EMI Quiet Modular Jack connectors with built-in LEDs. 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 colours and ports.





# **Specifications**

#### **Material**

High temperature engineering thermoplas-Insulator: tic; Complies with UL 94V-0. Colour: Black.

Phosphor Bronze hard temper with gold **Contacts:** 

thickness options (6 $\mu$ ", 15 $\mu$ ", 30 $\mu$ ", 50 $\mu$ ") Over 50µ" minimum nickel on contact mating area, 100µ" minimum matte tin

plating on soldering tail

Shield: Stainless Steel with tin dipped tails LED: Tin plating on LED tails. Epoxy lens.

#### **Electrical**

**Contact Resistance:**  $20 \text{ m}\Omega$  maximum

**Insulation Resistance:** 500 M $\Omega$  minimum at 500V DC for 2 mins.

max

**Current Rating:** 1.5 Amps **Voltage Rating:** 125 Volts AC

DWV: 1000 VAC, 60 Hz. 1 minute **Standard LEDs:** For 5.0 V Systems Forward Voltage: 2.1 Volts typical Reverse Voltage: 6 Volts minimum

Luminous Intensity: 0.5mCd minimum (at If = 2mA)

**Low Current LEDs:** For 3.3 V Systems Forward Voltage 2 Volts typical Reverse Voltage: 6 Volts minimum

Luminous Intensity: 1 mCd minimum (at If = 2mA)

#### Mechanical

Mating Connector Insertion Force: 5 lbs. maximum **Pull Retention Force:** 20 lbs. minimum

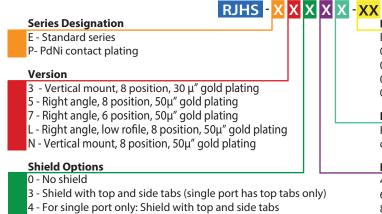
**Durability:** 750 mating and unmating cycles

Recommended Soldering 260°C for 5 seconds maximum **Temperature:** 

(connectors without LEDs are suitable for IR reflow)

**Operating Temperature:** -55°C to +85°C UL File #: E135615 CSA File #: LR685398

# **Ordering Information**



F - Shielded but with no top, side, or bottom tabs

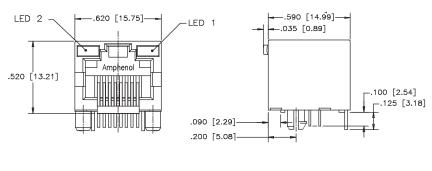
Didn't find what you were looking for?

RJHSE-508X

.100 [2.54]

# **Single Port**

#### **Non-Shielded**



.170 [4.32] ø.035±.002 [ø0.89±0.05] HOLES 12 REQ'D (BASED ON 2 LEDS) \_.360 [9.14] φ φ <sup>2</sup>φ ø.128±.002 [ø3.25±0.05] <del>҆</del><del>ф</del>ф HOLES 2 REQ'D .110 [2.79]-LOCATE HOLES ⊕ Ø.005[0.13] POSITION DIMENSIONS ARE BASIC .040 [1.02] TYP. .080 [2.03] TYP.-.280 [7.11]-**→**.500 [12.70]**→** 

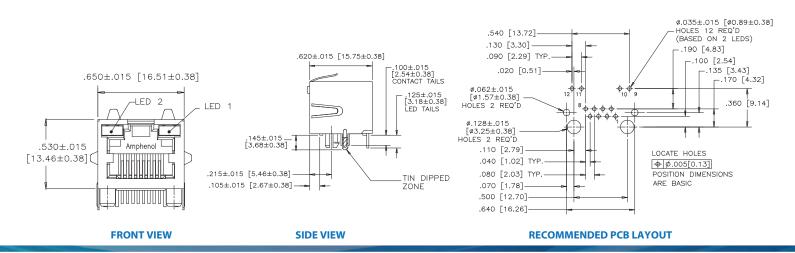
-.540 [13.72]-<del>-</del>

.090 [2.29] TYP. .020 [0.51]-

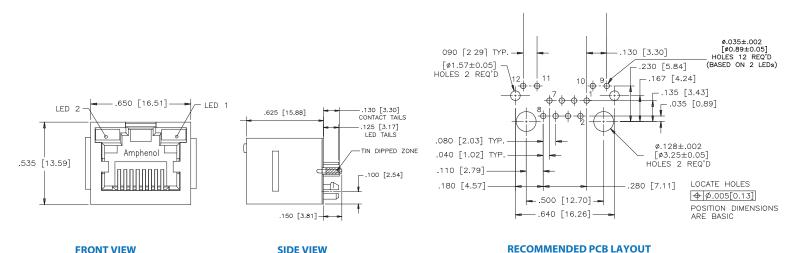
**FRONT VIEW SIDE VIEW RECOMMENDED PCB LAYOUT** 

#### **Shielded - With Top & Side Ground Tabs**

#### RJHSE-548X



#### **Vertical Mount RJHSE-338X**

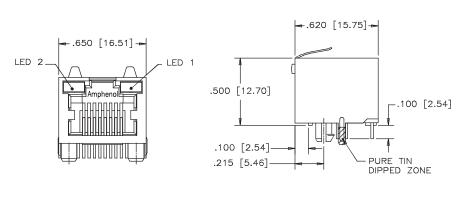


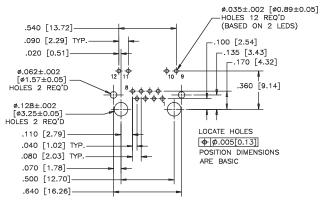
**RECOMMENDED PCB LAYOUT** 



# Single Port Shielded - Low Profile

#### **RJHSE-L38X**



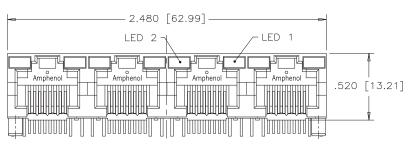


FRONT VIEW SIDE VIEW RECOMMENDED PCB LAYOUT

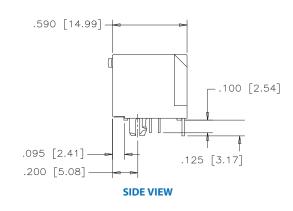
### **Multi Port**

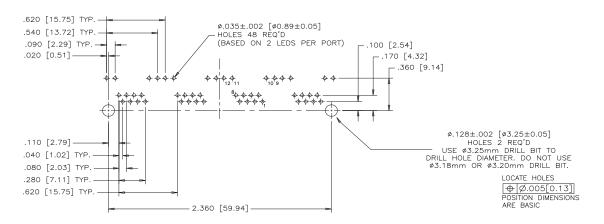
**Non-Shielded** 

#### **RJHSE-508 X04**



**FRONT VIEW** 



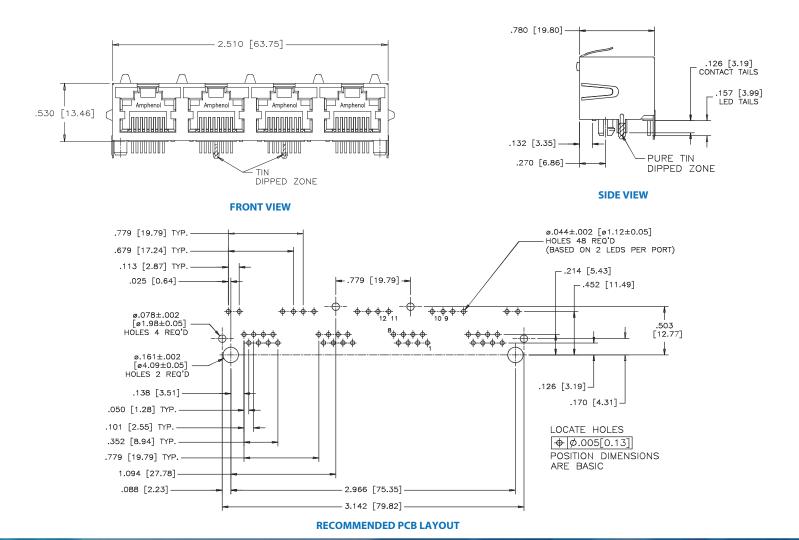


**RECOMMENDED PCB LAYOUT** 

# **Multi Port**

#### **Shielded**

#### **RJHSE-538 X04**



#### **Notes**

# RJSSE SURFACE MOUNT WITH LIGHT PIPES

# **Surface Mount with Light Pipes**

Amphenol Canadas RJSSE series represents an expansion of our current RJHSE series connector. The RJSSE offers all the benefits of the RJHSE series in SMT with light pipes. Shielded and unshielded versions are available with or without light pipes.



# **Specifications**

#### **Material**

**Insulator:** High temperature engineering thermoplas-

tic; Complies with UL 94V-0, Black color

Contacts: Phosphor Bronze hard temper selective

plated gold. Over 50μ" minimum nickel on contact mating area, 100μ" minimum matte

tin plating on soldering tail

**Shield:** Copper alloy; nickel or matte tin plating **LED:** Optical grade polycarbonate; complies with

#### **Electrical**

**Contact Resistance:**  $20 \text{ m}\Omega$  maximum

**Insulation Resistance:** 500 M $\Omega$  minimum at 500V DC for 2 mins.

max.

**Current Rating:** 1.5 Amps **Voltage Rating:** 125 Volts AC

**DWV:** 1000 VAC, 60 Hz. 1 minute

#### **Mechanical**

Mating Connector Insertion Force: 5 lbs. maximum

Durability: 20 lbs. minimum

**Durability:** 20 lbs. minimum **Recommended Soldering** 750 mating and up

**Recommended Soldering 750 mating and unmating cycles Temperature:**IR Reflow peaked at 260°C

IR Reflow peaked at 260°C

for 5 to 8 seconds

(Light Pipes to be installed after

soldering)

**Operating Temperature:** -55°C to +85°C **UL File #:** E135615

# **Ordering Information**

#### Version

5 - 8 position,  $20\mu$ " gold plating

7 - 6 position, 20μ" gold plating

#### **Shield Options**

0 - No shield with -hold down bracket

3 - Shield with tabs on top

5 - Shield with flattened bottom tab

F - Shield without tabs and boardlock

N - No shield, no hold down bracket

S - Shield with straight PCB

#### **Number of Contacts**

4 - 4 contacts

6 - 6 contacts

8 - 8 contacts

#### Packaging

Blank - Tray

T - Tape & Reel

#### **Number of Ports**

Blank - 1 port

02 - 2 ports

04 - 4 ports

#### **Light Pipe Options**

0 - Blocked

1 - With light pipe

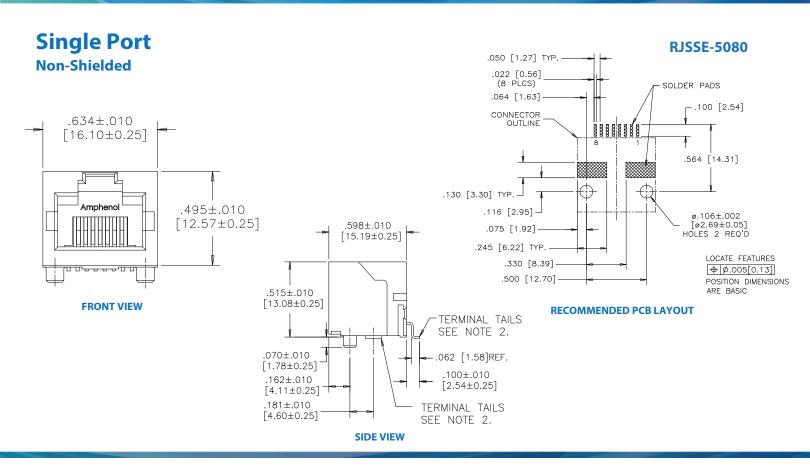
2 - Without light pipe, not blocked

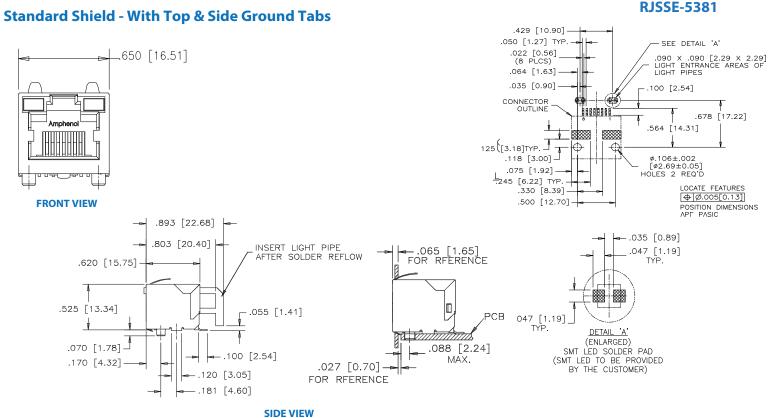
The light pipes are available to be purchased on their own. Part number: RJSSE-2458-01

Didn't find what you were looking for?

 $Please\ contact\ sales@amphenolcanada.com\ and\ let\ us\ know\ what\ you\ need.$ 

RJSSE - X X X X X - X

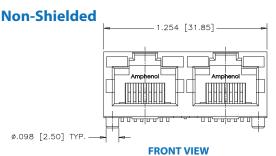


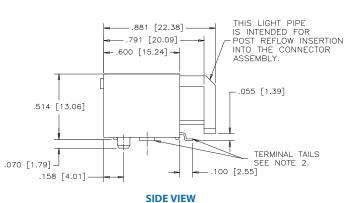


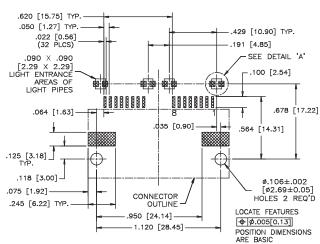
# RJSSE SURFACE MOUNT WITH LIGHT PIPES

### **Multi Port**

# RJSSE-5081-02

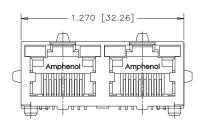




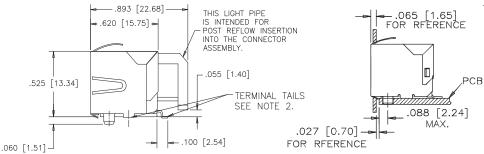


**RECOMMENDED PCB LAYOUT** 

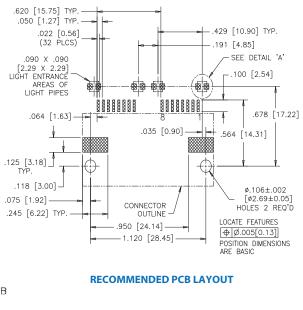
# Multi Port Shielded



**FRONT VIEW** 



RJSSE-5381-02



SIDE VIEW

## 1, 2, and 4 Port with LEDs

The RJSBE series of modular jacks supports Ethernet Protocols. Shielding available with or without a ferrite filter for increased EMI performance and LEDs for link activity and network speed verification.



# **Specifications**

#### **Material**

**Insulator:** High temperature engineering thermoplastic;

Complies with UL 94V-0, Black colour

**Contacts:** Phosphor Bronze hard temper with gold

thickness options (6μ", 15μ", 30μ", 50μ") Over 50μ" minimum nickel on contact mating area, 100μ" minimum matte tin plating on

soldering tail

**Shield:** Copper alloy; nickel plated with tin dipped tails

**LED:** Tin plating on LED tails. Epoxy lens.

#### **Electrical**

**Contact Resistance:**  $20 \text{ m}\Omega \text{ maximum}$ 

Insulation Resistance: 500 MΩ minimum at 500V DC for 2 mins. max. Durability:

Current Rating: 1.5 Amps Voltage Rating: 125 Volts AC

**DWV:** 1000 VAC, 60 Hz. 1 minute

LED Forward DC Current: 20 mA typical

**LED Forward Voltage:** 1.9 Volts maximum (at If=2mA) for single

colors

1.6 Volts maximum (at If = 2mA) for bi-colors

**LED Reverse Voltage:** 5 Volts minimum

**LED Light Intensity:** 0.4 to 1.5 mCd minimum (at If = 2mA) for single colors

0.4 mCd minimum (at If = 2mA) for bi-colors

**LED Wave Length:** Yellow: 587±7 nm measured at 20mA

Green:  $565 \pm 6$  nm measured at 20mA Red:  $625 \pm 5$  nm measured at 20mA

#### Mechanical

Mating Connector Insertion Force:5 lbs. maximumMating Connector Pull20 lbs. minimum

**Retenion Force:** 

**CDurability:** 750 mating and unmating cycles

**Recommended Soldering** Wave soldering peacked at 260°C for 5

**Temperature:** seconds maximum

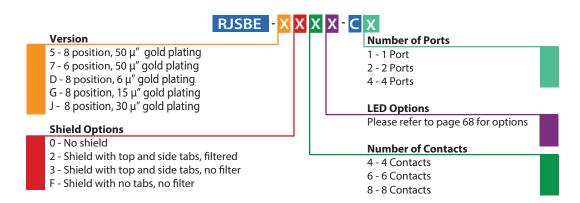
(connectors without LEDs are suitable for

IR reflow)

Operating Temperature: -55°C to +85°C

**UL File #:** E135615 **CSA File #:** LR685398

# **Ordering Information**



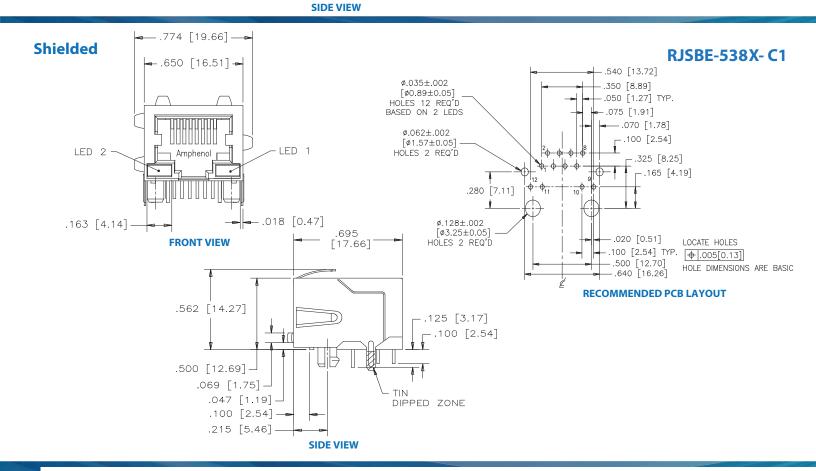
Didn't find what you were looking for?

# RJSBE 1, 2, AND 4 PORT WITH LEDS

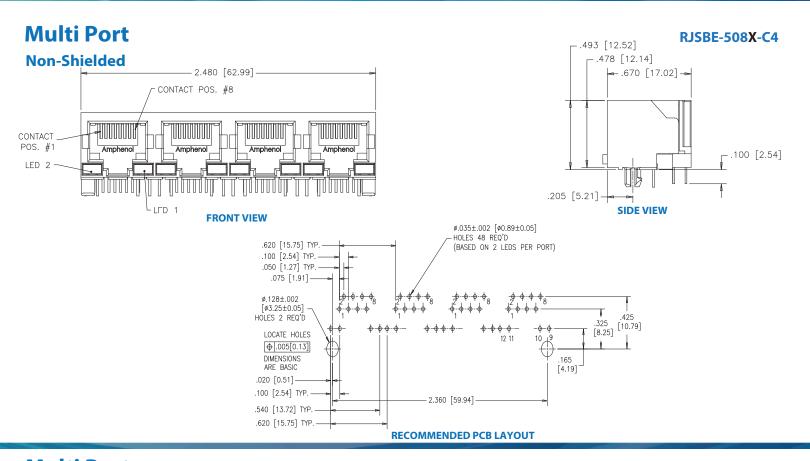
#### **Single Port** RJSBE-508X-C1 **Non-Shielded** Ø.035±.002 [Ø0.89±0.05] .100 [2.54] TYP. -HOLES 12 REQ'D .050 [1.27] TYP. -(BASED ON 2 LEDS PER PORT) .620 [15.75] .075 [1.91] CONTACT POS. #8 .165 [4.19] .425 325 [10.79] 10000000 CONTACT. [8.25] POS. #1 Amphenol LED 2 ø.128±.002 LOCATE HOLES $[\emptyset 3.25 \pm 0.05]$ HOLES 2 REQ'D ⊕ .005[0.13] LED 1 **DIMENSIONS** .020 [0.51] -ARE BASIC .100 [2.54] TYP.-**FRONT VIEW** .500 [12.70]-.670 [17.02] .540 [13.72] -**RECOMMENDED PCB LAYOUT** .100 [2.54] CONTACT TAILS .493 [12.52]

.205 [5.21] -

.125 [3.18] LED TAILS



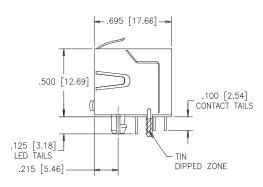
1, 2, AND 4 PORT WITH LEDS



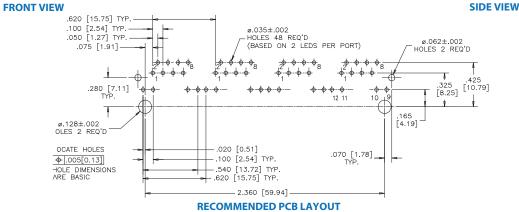
### **Multi Port Shielded**

#### **—** 2.510 [63.76] CONTACT POS. #8 CONTACT POS. #1 Amphenol — \_\_\_Amphenol — \_\_\_Amphenol 🗐 Amphenol F LED 2

LED 1



RJSBE-538X-C4





### Filtered and Shielded

The FRJAE series of shielded and filtered modular jacks offer low cost and effective EMC control within standard RJ11 and RJ45 connector footprints. EMC control is offered by a completely shielded connector and/or with the use of a high resistivity, high impendance ferrite block. No board layout changes are required for its use. Simply replace the standard non-filtered connector for superior EMC performance.



# **Specifications**

#### **Material**

**Insulator:** High temperature engineering thermoplastic;

Complies with UL 94V-0, Black color

Contacts: Phosphor Bronze hard temper with gold

thickness options ( $6\mu''$ ,  $15\mu''$ ,  $30\mu''$ ,  $50\mu''$ ) Over  $50\mu''$  minimum nickel on contact mating area,  $100\mu''$  minimum matte tin plating on

soldering tail

**Shield:** Copper alloy; nickel plated with tin dipped tail **Filter:** High impedance, high resistivity ferrite block

#### **Electrical**

**Contact Resistance:**  $20 \text{ m}\Omega \text{ maximum}$ 

**Insulation Resistance:** 500 M $\Omega$  minimum at 500V DC for 2 mins.

max

**Current Rating:** 1.5 Amps **Voltage Rating:** 125 Volts AC

**DWV:** 1000 VAC, 60 Hz. 1 minute

#### **Mechanical**

Mating Connector Insertion Force: 5 lbs. maximum

**Durability:** 20 lbs. minimum

**Recommended Soldering** 750 mating and unmating cycles

**Temperature:** IR Reflow peaked at 260°C

for 5 to 8 seconds

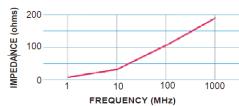
**Operating Temperature:** (IR reflow not recommended for

connectors with LEDs)

-55°C to + 85°C E135615

**UL File #:** E135615 **CSA File #:** LR68598

#### **Impedance Characteristics**



# **Ordering Information**

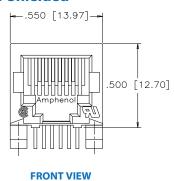
#### **Number of Ports** Version Blank - 1 Port 4 - 8 position 02 - 2 Ports 6 - 6 position 04 - 4 Ports **Shield Options** 06 - 6 Ports 0 - Non-filtered with no shield 08 - 8 Ports 1 - Filtered with front tab shield 3 - Non-filtered with front tab shield **Number of Contacts** 4 - Filtered with no shield 2 - 2 Contacts 6 - Filtered with read tab shield 4 - 4 Contacts 7 - Filtered with non-tab shield 6 - 6 Contacts 8 - Non-filtered with rear tab shield 8 - 8 Contacts

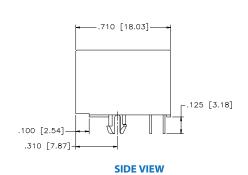
Didn't find what you were looking for?

# FRJAE FILTERED AND SHIELDED

# **Single Port**

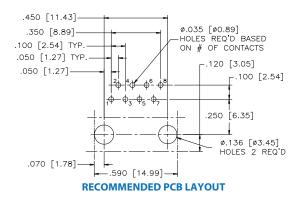
#### **Non-Shielded**



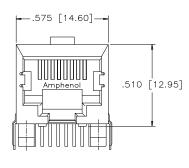


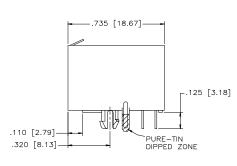
#### FRJAE-408

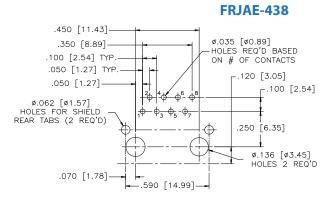
FRJAE-4X8-0X



#### **Shielded**



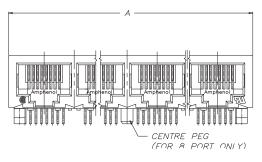


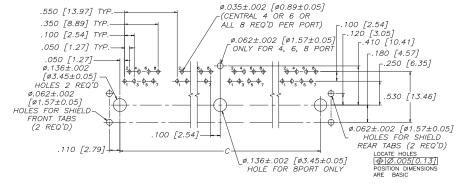


FRONT VIEW SIDE VIEW RECOMMENDED PCB LAYOUT

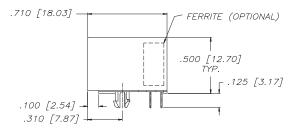
#### **Multi Port**

#### **Non-Shielded**





#### **FRONT VIEW**



RECOMMENDED PCB LAYOUT

Number of Ports	А	С			
2	1. 200 [30.48]	1. 000 [25.40]			
4	2 .300 [58.42]	2. 100[53.34]			
6	3. 400 [86.36]	3. 200 [81.28]			
8	4.500 [114.30]	4. 300 [109.22]			

SIDE VIEW



CENTRAL PEG

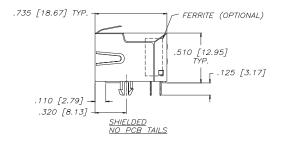
(FOR 8 PORT ONLY)

# Multi Port Shielded

Amplenol Amplenol Amplenol PURE – TIN

**FRONT VIEW** 

DIPPED ZONE — BACK TAB ONLY FOR4, 6, 8 PORT



.550 [13.97] TYP.-

.350 [8.89] TYP.-.100 [2.54] TYP.-

.050 [1.27] TYP.-

.110 [2.79]-

Number of ports	В	С			
2	1.230 [31.24]	1.000 [25.40]			
4	2.330 [59.18]	2.100 [53.34]			
6	3.430 [87.12]	3.200 [81.28]			
8	4.530 [115.06]	4.300 [ 109.22]			

\_ø.136±.002 [ø3.45±0.05] HOLE FOR 8PORT ONLY

ø.035±.002 [ø0.89±0.05] -(CENTRAL 4 OR 6 OR ALL 8 REQ'D PER PORT)

ø.062±.002 [ø1.57±0.05] ONLY FOR 4, 6, 8 PORT **FRJAE-418-0X** 

<sub>C</sub>.180 [4.57]

r.250 [6.35]

.530 [13.46]

ø.062±.002 [ø1.57±0.05] - HOLES FOR SHIELD REAR TABS (2 REQ'D)

.100 [2.54] .120 [3.05] .410 [10.41]

**SIDE VIEW** 

**RECOMMENDED PCB LAYOUT** 

#### **Notes**

# **RJ45 Surface Mount with LEDs**

The RJCSE is a right angle surface mount connector with built-in LEDs, available with or without shielding. Shielding available for increased EMI performance and built-in LEDs for link activity and network verification. This product is ideal for LAN applications such as adapter cards and routers.



# **Specifications**

#### **Material**

Insulator: High temperature engineering thermoplastic;

Complies with UL 94V-0, Black color

**Contacts:** Phosphor Bronze hard temper with gold

thickness options ( $15\mu''$ ,  $50\mu''$ )

Over 50µ" minimum nickel on contact mating area, Gold flash over nickel on soldering tail

Shield: Copper alloy with nickel plating LED: Tin plating on LED tails. Epoxy lens.

**Electrical** 

**Contact Resistance:**  $20 \, \text{m}\Omega \, \text{maximum}$ 

500 M $\Omega$  minimum at 500V DC for 2 mins. max. **Temperature: Insulation Resistance:** 

**Current Rating:** 1.5 Amps **Voltage Rating:** 125 Volts AC

DWV: 1000 VAC, 60 Hz. 1 minute

**LED Forward DC Current:** 20 mA typical

1.9 Volts maximum (at If=2mA) for single CSA File #: **LED Forward Voltage:** 

1.6 Volts maximum (at If = 2mA) for bi-colors

5 Volts minimum **LED Reverse Voltage:** 

0.4 to 1.5 mCd minimum (at If = 2mA) for single colors **LED Light Intensity:** 

0.5 mCd minimum (at If = 2mA) for bi-colors

Yellow: 587±7 nm measured at 20mA **LED Wave Length:** 

> Green:  $565 \pm 6$  nm measured at 20mARed:  $625 \pm 5$  nm measured at 20mA

#### Mechanical

Mating Connector Insertion Force: 5 lbs. maximum **Durability:** 20 lbs. minimum

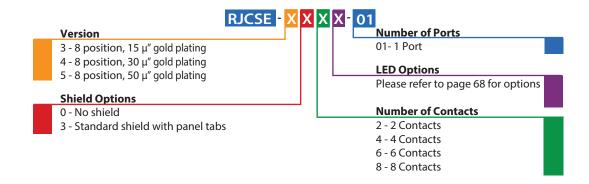
**Recommended Soldering** 750 mating and unmating cycles 260°C for 5 seconds maximum

(connectors without LEDs are suitable for

IR reflow)

**Operating Temperature:** -55°C to +85°C UL File #: E135615 LR685398

# **Ordering Information**

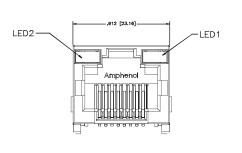


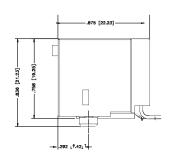
Didn't find what you were looking for?



# **Single Port**

#### Non-Shielded





10 9 .175 [4.45]

**RJCSE-508X-01** 

ø.187±.002 [ø4.75±0.05]

RECOMMENDED PCB LAYOUT

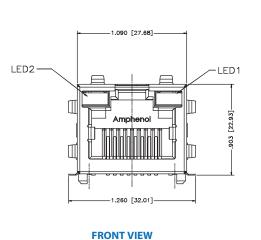
.059 [1.49]-

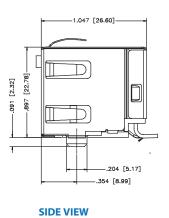
-.621 [15.77]-

**FRONT VIEW** 

**SIDE VIEW** 

#### Shielded





**RECOMMENDED PCB LAYOUT** 

**Notes** 

### **Surface Mount Ultra Low Profile**

The RJLSE series are surface mount modular jacks with superior EMI performance that support Ethernet Protocols. This low profile connector is built to meet your high volume RJ requirements. This series is a true pick and place compatible SMT connector and is available with different shielding, number of contacts, gold plating thickness, and colour options. Built with high temperature engineering thermoplastic and suitable for IR reflow solder process.



### **Specifications**

#### **Material**

**Insulator:** High temperature engineering thermoplastic;

Complies with UL 94V-0, Available: black,

**Contacts:** yellow, red

**Phosphor Bronze** 

Gold plating on mating surfaces over 50µ" (1.27 microns) minimum nickel underplate. 100µ" (2.54 microns) minimum matte tin on

contact tails.

Plating: Over 50µ" minimum nickel on contact mating

area, 100µ" minimum matte tin plating on

soldering tail

**Shield:** Copper alloy; nickel or matte tin plated

Coplanarity: Maximum gap between all terminal tails is

#### **Mechanical**

Mating Connector Insertion Force: 5 lbs. maximum

**Durability:** 20 lbs. minimum

**Recommended Soldering** 750 mating and unmating cycles **Temperature:** 260°C for 5 seconds maximum

(connectors without LEDs are suitable

for IR reflow) **Operating Temperature:** -55°C to + 85°C E135615 LR685398

#### CSA File #: **Electrical**

UL File #:

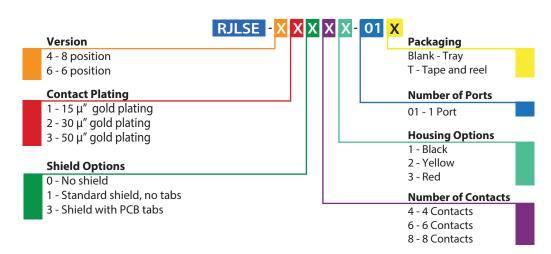
**Contact Resistance:** 20 mΩ maximum

**Insulation Resistance:** 500 M $\Omega$  minimum at 500V DC for 2 mins.

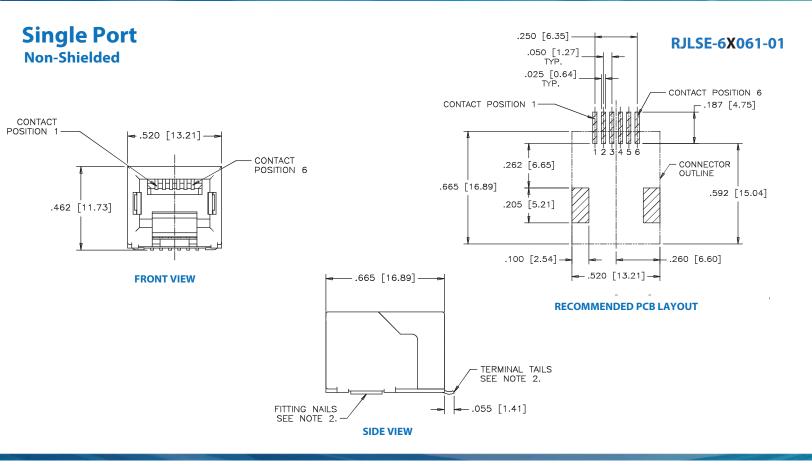
**Current Rating:** 1.5 Amps **Voltage Rating:** 125 Volts AC

DWV: 1000 VAC, 60 Hz. 1 minute

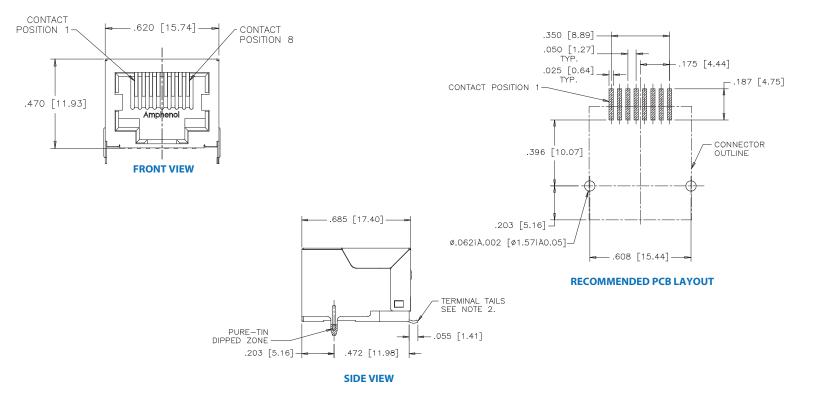
# **Ordering Information**



Didn't find what you were looking for?



Shielded RJLSE-4X381-01



# **RJ45 and RJ11 Standard Profile**

The family of EMI quiet modular jack connectors with integrated LEDs, features the same data transfer capabilities as our existing series of LED-integrated modular jacks. This product is an economical solution ideal for LAN applications and is intended for use with low temperature soldering processes. Shielded and non-shielded versions are available with a variety of LED options to choose from. RJESE is offered in both single and multi-port configurations.



### **Specifications**

#### **Material**

Insulator: High temperature engineering thermoplastic;

Complies with UL 94V-0, Black color

**Contacts:** Phosphor Bronze hard temper with gold

thickness options  $(6\mu'', 15\mu'', 30\mu'', 50\mu'')$ Over 50µ" minimum nickel on contact mating area, 100µ" minimum matte tin plating on

soldering tail

Shield: Stainless steel with tin dipped tails

LED: Tin plating on LED tails

#### Electrical

**Contact Resistance:**  $20 \text{ m}\Omega$  maximum

**Insulation Resistance:** 500 M $\Omega$  minimum at 500V DC for 2 mins. **Durability:** 

max.

**Current Rating:** 1.5 Amps

**Voltage Rating:** 125 Volts AC

DWV: 1000 VAC, 60 Hz. 1 minute

**LED Forward DC Current:** 20 mA typical

**LED Forward Voltage:** 

1.9 Volts maximum (at If=2mA) for single colors

2.6 Vols maximum (at If = 2mA) for bi-colors

**LED Reverse Voltage:** 5 Volts minimum

**LED Light Intensity:** 0.4 to 1.5 mCd minimum (at If = 2mA)

for single colors

**LED Wave Length:** 0.5 mCd minimum (at If = 2mA) for bi-colors

> Yellow: 587±7 nm measured at 20mA Green:  $565 \pm 6$  nm measured at 20mA Red:  $625 \pm 5$  nm measured at 20mA

#### Mechanical

Mating Connector Insertion Force: 5 lbs. maximum 20 lbs. minimum

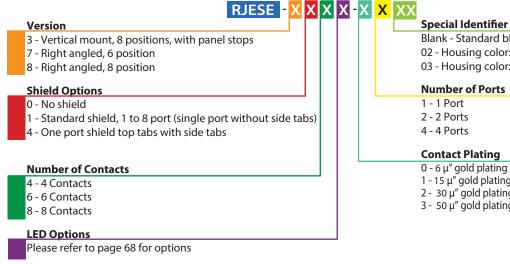
**Recommended Soldering** 750 mating and unmating cycles **Temperature:** 260°C for 5 seconds maximum

(connectors without LEDs are suitable

for IR reflow)

**Operating Temperature:** -55°C to +85°C

# **Ordering Information**



Blank - Standard black housing

02 - Housing color: yellow #114C

03 - Housing color: red

#### **Number of Ports**

1 - 1 Port

4 - 4 Ports

#### **Contact Plating**

0 - 6 μ" gold plating

1 - 15 μ" gold plating

2 - 30 μ" gold plating

3 - 50 μ" gold plating

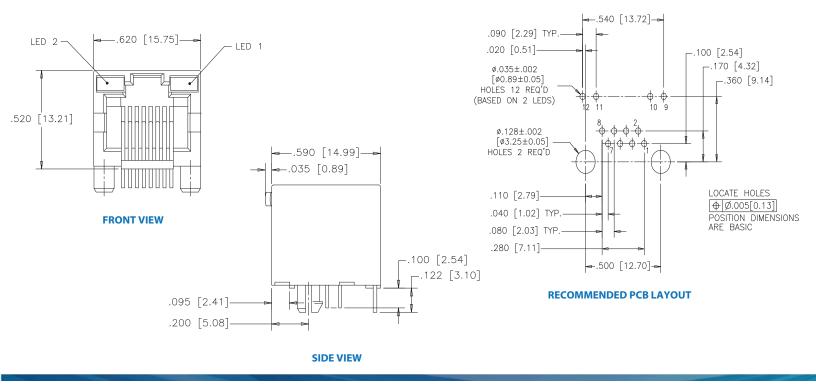
Didn't find what you were looking for?



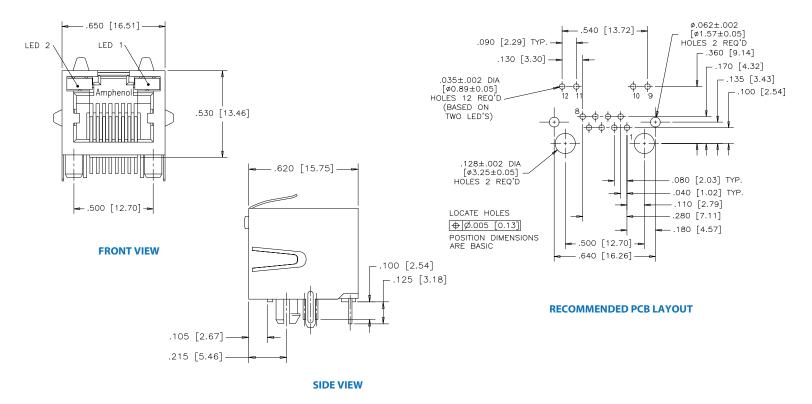
# **Single Port**

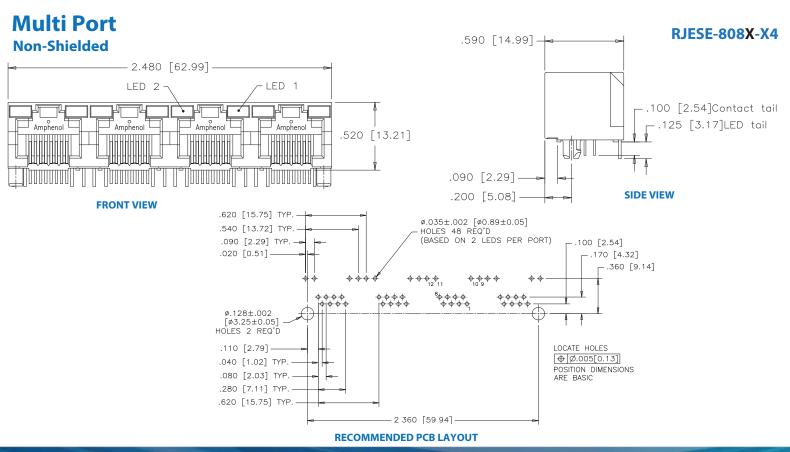
**Non-Shielded** 

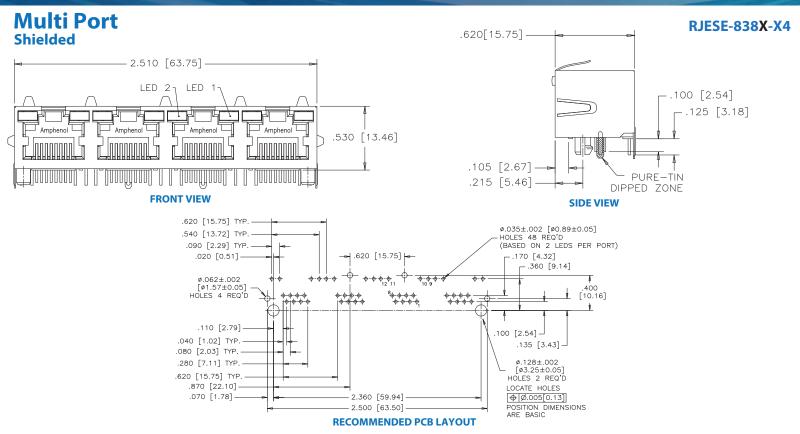
**RJESE-808X-X1** 



#### Shielded RJESE-848X-X1







# RJE01 RJ11 (SIX POSITION)

# **RJ11 (Six Position)**

The RJE01 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**

**Insulator:** High temperature engineering thermoplastic;

Complies with UL 94V-0, Black colour

Contacts: Phosphor Bronze hard temper with gold

thickness options (6 $\mu$ ", 15 $\mu$ ", 30 $\mu$ ", 50 $\mu$ ")

Over  $50\mu''$  minimum nickel on contact mating area,  $100\mu''$  minimum matte tin plating on

soldering tail

**Shield:** Stainless Steel with tin dipped tails

#### **Mechanical**

Mating Connector Insertion Force: 5 lbs. maximum
Mating Connection Retention Force: 20 lbs. minimum

**Durability:** 750 mating and unmating cycles **Recommended Soldering** 260°C for 5 seconds maximum

 Operating Temperature:
 -55°C to + 85°C

 UL File #:
 E135615

 CSA File #:
 LR685398

#### **Electrical**

**Contact Resistance:**  $20 \text{ m}\Omega \text{ maximum}$ 

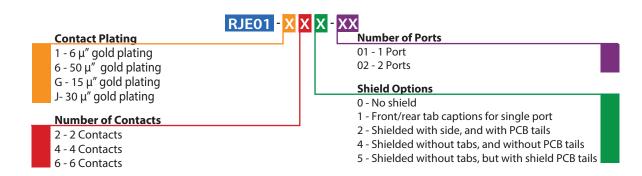
Insulation Resistance: 500 M $\Omega$  minimum at 500V DC for 2 mins. Current Rating:

Voltage Rating: 125

125 Volts AC

**DWV:** 1000 VAC, 60 Hz. 1 minute

# **Ordering Information**

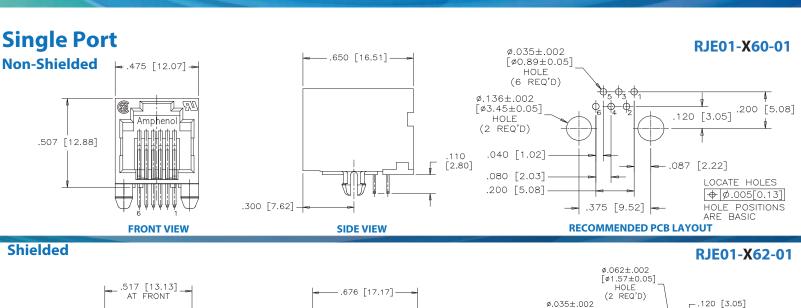


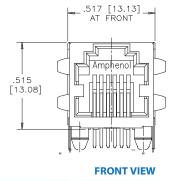
Didn't find what you were looking for?

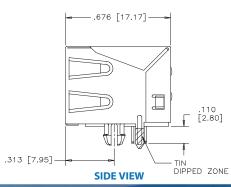
RJE01-X60-02

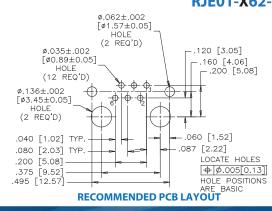
.120 [3.05]

.200 [5.08]

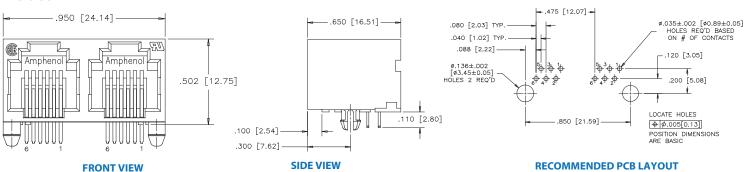








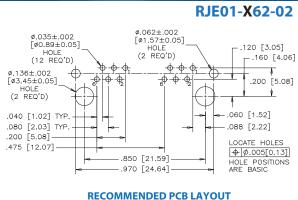
#### **Multi Port Non-Shielded**



**Shielded** .976 [24.79] AT FRONT Amphenol P 515 [13.08]

**FRONT VIEW** 

.676 [17.17]-110 [2.80] -.313 [7.95] **SIDE VIEW** 



# RJE02 SINGLE PORT HIGH PROFILE

# Single Port, High Profile

RJE02 series is a group of products within a family of standard modular jacks designed to meet requirements for a variety of applications Options within the RJE02 family include options with and without a panel stops, and RJ11 and RJ45 configurations.



# **Specifications**

#### **Material**

**Insulator:** High temperature engineering thermoplastic. Complies with UL 94V-0, Black.

Contacts: Phosphor Bronze hard temper with gold

thickness options  $(6\mu'', 15\mu'', 30\mu'', 50\mu'')$ Over  $50\mu''$  minimum nickel on contact mating area,  $100\mu''$  minimum matte tin plating on

soldering tail

#### **Mechanical**

Mating Connector Insertion Force: 5 lbs. maximum Durability: 20 lbs. minimum

**Recommended Soldering Temperature:**750 mating and unmating cycles
260°C for 5 seconds maximum

**Operating Temperature:**  $-40^{\circ}\text{C to} + 85^{\circ}\text{C}$ 

#### **Electrical**

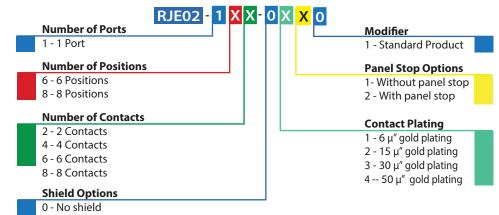
**Contact Resistance:**  $20 \text{ m}\Omega \text{ maximum}$ 

Insulation Resistance:  $500~\text{M}\Omega$  minimum at 500V DC for 2 mins.

Current Rating: max.
Voltage Rating: 125 Volts AC

**DWV:** 1000 VAC, 60 Hz. 1 minute

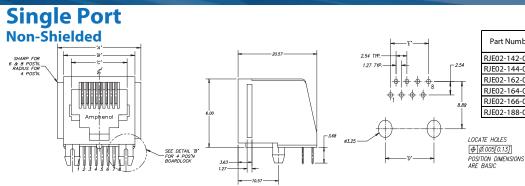
# **Ordering Information**



Didn't find what you were looking for?

**FRONT VIEW** 

Please contact sales@amphenolcanada.com and let us know what you need



**SIDE VIEW** 

#### RJE02-1XX-0X20

Part Number	No. of	No. of	Dimensions				Quantity	Quantity	
rait Nullibel	Positions	Contacts	Α	В	C	D	Е	per tray	per carton
RJE02-142-0X20	4	2	13.72	11.18	7.85	7.62	1.27	120	2160
RJE02-144-0X20	4	4	13.72	11.18	7.85	7.62	3.81	120	2160
RJE02-162-0X20	6	2	15.75	13.21	9.88	10.16	1.27	120	2160
RJE02-164-0X20	6	4	15.75	13.21	9.88	10.16	3.81	120	2160
RJE02-166-0X20	6	6	15.75	13.21	9.88	10.16	3.81	120	2160
RJE02-188-0X20	8	8	17.78	15.24	11.91	11.43	8.89	100	1800

RECOMMENDED PCB LAYOUT

# Single Port, Low Profile

RE03 series is a group of products within a family of standard modular jacks designed to meet requirements for a variety of applications. Options within the RJE03 family include shielded and non-shielded, and RJ11 & RJ45 configurations.



# **Specifications**

Material

Insulator: High temperature engineering thermoplastic;

Complies with UL 94V-0, Black color

**Contacts:** Phosphor Bronze hard temper with gold

thickness options ( $6\mu''$ ,  $15\mu''$ ,  $30\mu''$ ,  $50\mu''$ ) Over 50µ" minimum nickel on contact mating

area, 100µ" minimum matte tin plating on soldering tail

Shield: Copper alloy; nickel plated with tin dipped tail

Electrical

**Contact Resistance:** 20 mΩ maximum

**Insulation Resistance:**  $500 \text{ M}\Omega$  minimum at 500 V DC for 2 mins.

**Current Rating:** 1.5 Amps 125 Volts AC **Voltage Rating:** 

1000 VAC, 60 Hz. 1 minute DWV:

#### Mechanical

**Mating Connector Insertion Force:** 5 lbs. maximum Mavting Connector Pull Retention Force: 20 lbs. minimum

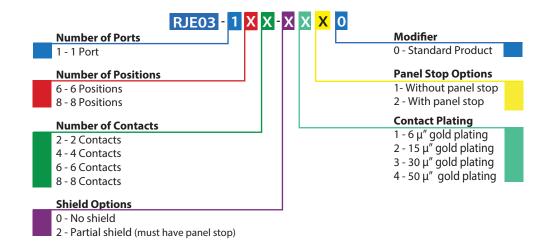
**Durability:** 750 mating and unmating cycles

**Recommended Soldering** 

**Temperature:** 260°C for 5 seconds maximum

-40°C to +85°C **Operating Temperature:** 

# **Ordering Information**



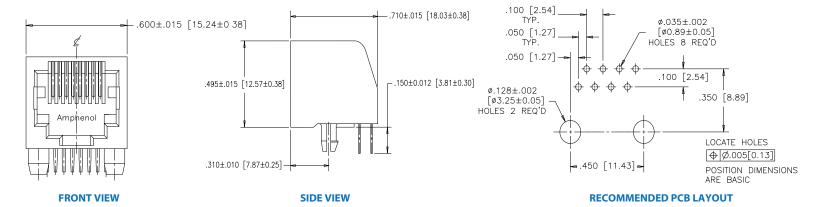
Didn't find what you were looking for?

# RJE03 SINGLE PORT LOW PROFILE

# **Single Port**

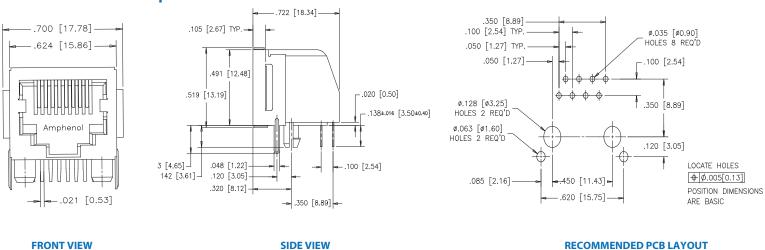
Non - Shielded

RJE03-188-0X10



#### **Shielded with Panel Stop**

### RJE03-188-2X20



**Notes** 

### **Ultra Low Profile**

RJE05 series is a group of products within a family of standard modular jacks designed to meet requirments for a variety of applications. Options within the RJE05 family include shielded or non-shielded, and RJ11 & RJ45 configurations.



## **Specifications**

#### **Material**

Insulator: Engineering thermoplastic. Complies with UL

94V-0. Colour: Black

**Contacts:** Phosphor Bronze hard temper with gold

> thickness options (6µ", 15µ", 30µ", 50µ") Over 50µ" minimum nickel on contact mating area, 100µ" minimum matte tin plating on soldering

Shield: Copper alloy; nickel plated with tin dipped tail

#### **Electrical**

**Contact Resistance:** 20 mΩ maximum

**Insulation Resistance:** 500 M $\Omega$  minimum at 500V DC for 2 mins.

**Current Rating:** 1.5 Amps Voltage Rating: 125 Volts AC

DWV: 1000 VAC, 60 Hz. 1 minute

#### **Mechanical**

**Operating Temperature:** 

**Mating Connector Insertion Force:** Mating Connector Pull Retention Force: 20 lbs. minimum

**Durability:** 

UL File #:

**Recommended Soldering Temperature:** Wave soldering peaked at 260°C

5 lbs. maximum

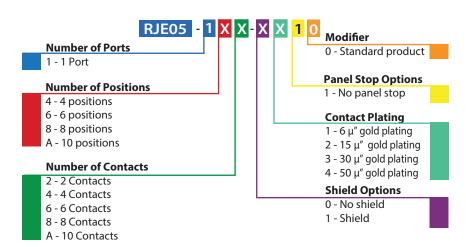
750 mating and unmating cycles

for 5 seconds maximum

(connectors made with high temperature materials are suitable for IR review)

-40°C to +85°C E136228

# **Ordering Information**

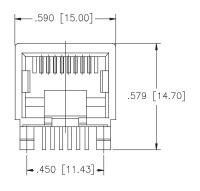


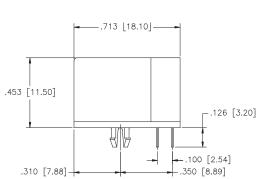
Didn't find what you were looking for?

# RJE05 ULTRA LOW PROFILE

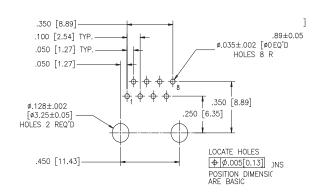
# **Single Port**

#### Non - Shielded





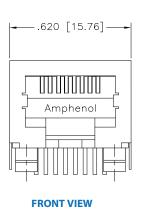
#### **RJE05-188-0X10**

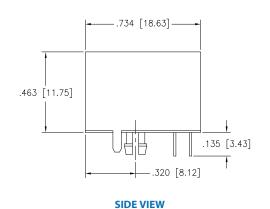


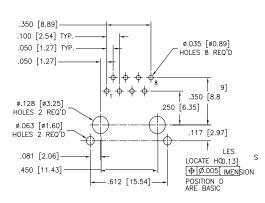
FRONT VIEW SIDE VIEW RECOMMENDED PCB LAYOUT

#### **Shielded**

#### RJE05-188-1X10







**RECOMMENDED PCB LAYOUT** 

#### **Notes**

# **Single Port Surface Mount**

RJE07 series is a group of products within a family of standard modular jacks designed to meet requirements for a variety of applications. Options within The FRJAE series of shielded and filtered modular jacks offer low cost and effective EMC control within standard RJ11 and RJ45 connector footprints. EMC control is offered by a completely shielded connector and/or with the use of a high resistivity, high impendance ferrite block. No board layout changes are required for its use. Simply replace the standard non-filtered connector for superior EMC performance.



## **Specifications**

#### **Material**

**Insulator:** High temperature thermoplastic. Complies

with UL 94V-0. Colour: Black

Contacts: Phosphor Bronze hard temper with gold

thickness options ( $6\mu''$ ,  $15\mu''$ ,  $30\mu''$ ,  $50\mu''$ ), over  $50\mu''$  minimum nickel on contact mating area.  $100\mu''$  minimum matte tin plating on solder-

ing tail

**Shield:** Copper alloy; nickel plated with tin dipped tail.

#### **Electrical**

**Contact Resistance:**  $20 \text{ m}\Omega \text{ maximum}$ 

**Insulation Resistance:** 500 M $\Omega$  minimum at 500V DC for 2 mins.

max.

**Current Rating:** 1.5 Amps **Voltage Rating:** 125 Volts AC

**DWV:** 1000 VAC, 60 Hz. 1 minute

#### **Mechanical**

Mating Connector Insertion Force:
Mating Connector Pull Retention Force:

**Durability:** 

**Recommended Soldering Temperature:** 

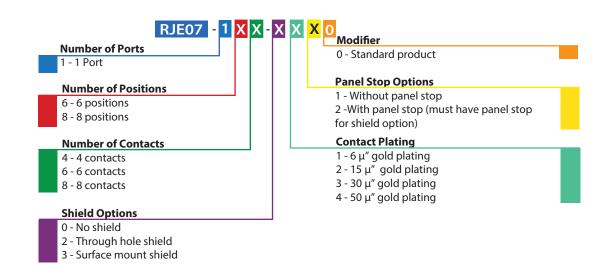
**Operating Temperature:** 

5 lbs. maximum 20 lbs. minimum

750 mating & unmating cycles Reflow soldering at 260°C for 6 to 8

seconds maximum -40°C to + 85°C

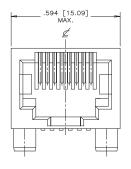
# **Ordering Information**

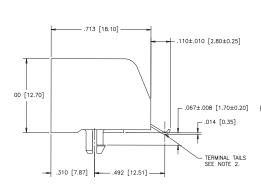


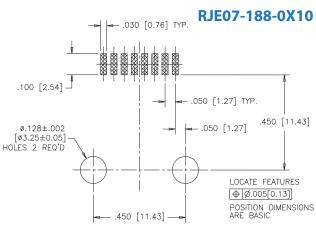
Didn't find what you were looking for?

# **Single Port**

**Non-Shielded** 





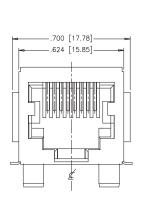


**FRONT VIEW** 

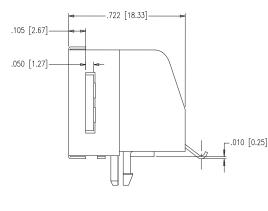
**SIDE VIEW** 

**RECOMMENDED PCB LAYOUT** 

#### **Surface Mount Shield**



**FRONT VIEW** 



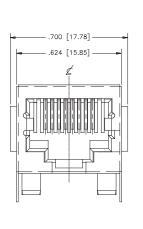
#### RJE07-188-3X20 -.030 [0.76] TYP .100 [2.54] -.050 [1.27] TYP. ø.128±.002 [ø3.25±0.05] HOLES 2 REQ'D .450 [11.43] -.050 [1.27] .080 [2.03] .080 [2.03] TYP. .082 [2.07] .080 [2.03]\_ TYP. 450 [11.43]-LOCATE FEATURES -.613 [15.57] ⊕ Ø.005[0.13] ALL POSITIONS ARE BASIC

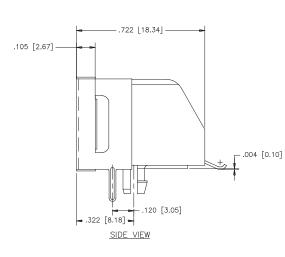
**SIDE VIEW** 

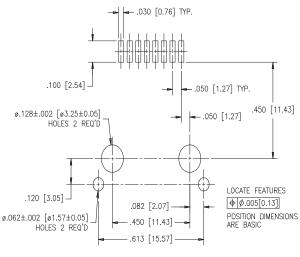
#### **RECOMMENDED PCB LAYOUT**

#### **Through-Hold Shield**

#### RJE07-188-2X20







**FRONT VIEW** 

**SIDE VIEW** 

**RECOMMENDED PCB LAYOUT** 

### **Standard Profile**

RJE09 series is a group of products within a family of standard modular jacks designed to meet requirements for a variety of applications. Options with the RJE09 family include shielded & non-shielded, and RJ11 & RJ45 configurations.



# **Specifications**

#### **Material**

**Insulator:** Engineering thermoplastic. Complies with UV

94V-0. Colour: Black

Contacts: Phosphor Bronze hard temper with gold

thickness options  $(6\mu'', 15\mu'', 30\mu'', 50\mu'')$ , over  $50\mu''$  minimum nickel on contact mating area.  $100\mu''$  minimum matte tin or gold flash plating

on tail area.

**Shield:** Copper alloy; nickel plating over all.

#### **Electrical**

**Contact Resistance:** 20 mΩ maximum

**Insulation Resistance:** 500 M $\Omega$  minimum at 500V DC for 2 mins.

max.

**Current Rating:** 1.5 Amps **Voltage Rating:** 125 Volts AC

**DWV:** 1000 VAC, 60 Hz. 1 minute

#### **Mechanical**

Mating Connector Insertion Force: Mating Connector Pull Retention Force:

**Durability:** 

**Recommended Soldering Temperature:** 

**Operating Temperature:** 

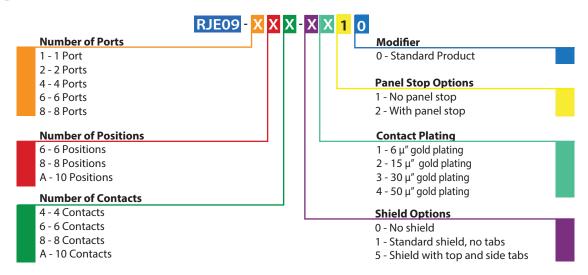
UL File #:

5 lbs. maximum 20 lbs. minimum

750 mating & unmating cycles Wave soldering at 260°C for 5

seconds maximum -40°C to + 85°C E136228

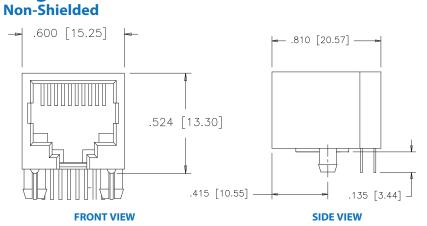
# **Ordering Information**



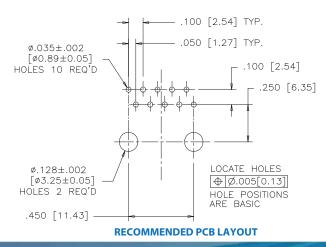
Didn't find what you were looking for?

# RJE09 STANDARD PROFILE

# **Single Port**

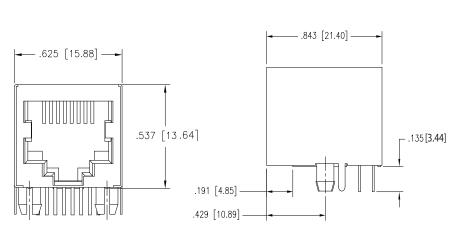


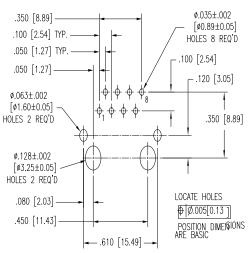
#### **RJE09-1AA-0X10**



#### Shielded

#### RJE09-188-1X10





**FRONT VIEW** 

**SIDE VIEW** 

**SIDE VIEW** 

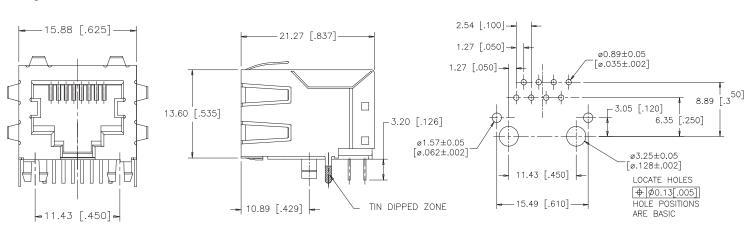
RECOMMENDED PCB LAYOUT

RJE09-188-5X10

#### **Shielded**

\*This drawing is in millimeteres [inches]

**FRONT VIEW** 

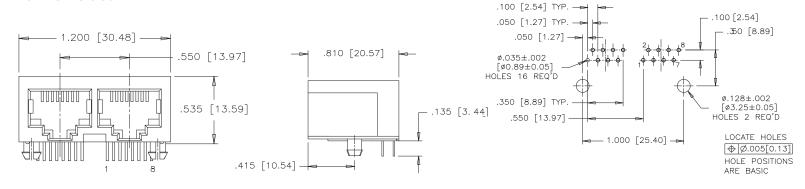


**RECOMMENDED PCB LAYOUT** 

#### **Multi Port** Non - Shielded

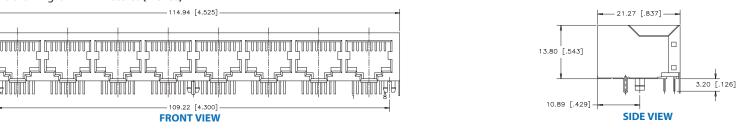
#### RJE09-288-0X10

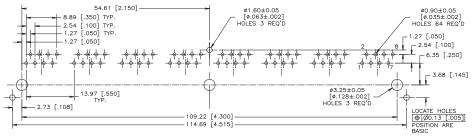
RJE09-888-1X10



**FRONT VIEW SIDE VIEW RECOMMENDED PCB LAYOUT** 

# **Shielded** \*This drawing is in millimeteres [inches]





**RECOMMENDED PCB LAYOUT** 

#### **Notes**

# SINGLE PORT LOW PROFILE

# Single Port, Low Profile

The RJE15 low profile connector is built to meet your high volume RJ requirements. This is a true pick and place compatible SMT connector and is available with or without shielding, and a variety of options including number of contacts, plating thickness, and colour. Built within high temperature engineering thermoplastic and suitable for IR reflow solder process.



# **Specifications**

#### **Material**

Insulator: High temp.thermoplastic. Complies with UL

94V-0. Colour: Black

**Contacts:** Phosphor Bronze hard temper with gold

thickness options (6μ", 15μ", 30μ", 50μ"), over 50μ" minimum nickel on contact mating area. 100μ" minimum matte tin or gold flash plating

on tail area.

**Shield:** Copper alloy; nickel plating over all.

#### **Electrical**

**Contact Resistance:**  $25 \,\mathrm{m}\Omega$  maximum

**Insulation Resistance:** 1000 M $\Omega$  minimum at 500V DC for 2 mins.

max.

1.5 Amps **Current Rating:** 125 Volts AC **Voltage Rating:** 

DWV: 1000 VAC, 60 Hz. 1 minute

#### **Mechanical**

**Mating Connector Insertion Force:** Mating Connector Pull Retention Force: 20 lbs. minimum

**Durability:** 

Recommended Soldering Temperature: IR Reflow peaked at 260°C for 5 - 8

**Operating Temperature:** 

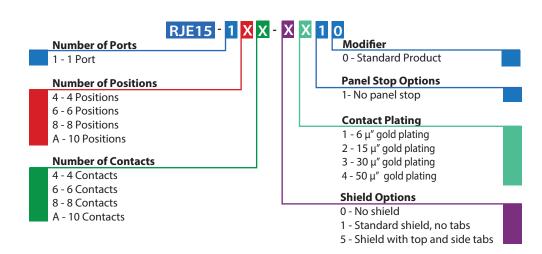
5 lbs. maximum

750 mating & unmating cycles

seconds maximum.

-40°C to +85°C

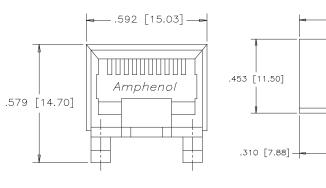
# **Ordering Information**



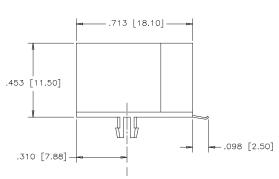
Didn't find what you were looking for?

# Single Port Non-Shielded

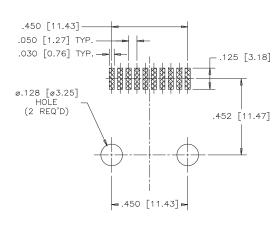
### **RJE15-1AA-0X10**



**FRONT VIEW** 



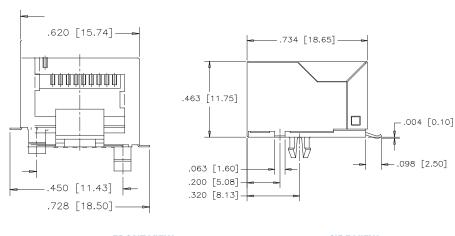
**SIDE VIEW** 

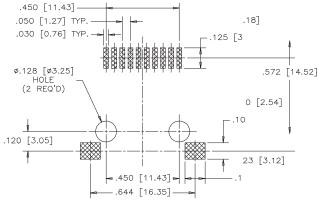


RECOMMENDED PCB LAYOUT

### Shielded

### RJE15-1AA-1X10





FRONT VIEW

**SIDE VIEW** 

**RECOMMENDED PCB LAYOUT** 

### **Notes**



# Recessed, Low Profile

The RJULE is a series of single port RJ45 modular jacks designed for slim profile applications. With a profile height of less than 10 millimeters, this connector is perfect where vertical space is limited. Standard and rear mount shield options for superior EMI performance makes this part ideal for LAN and router applications.



# **Specifications**

### **Material**

**Housing:** High temperature engineering thermoplastic;

flammability rating UL 94V-0

**Contacts:** Phosphor Bronze

**Plating** Gold plated on mating surfaces over 50μ" (1.27

microns) minimum nickel under-plate.

**Shield:** Copper alloy; nickel plated with tin dipped tail

### **Electrical**

**Contact Resistance:**  $20 \text{ m}\Omega \text{ maximum}$ 

**Insulation Resistance:** 500 M $\Omega$  minimum at 500V DC for 2 mins.

max.

Current Rating: 1.5 Amps
Voltage Rating: 125 Volts AC

**DWV:** 1000 VAC, 60 Hz. 1 minute

### **Mechanical**

Mating Connector Insertion Force: 5 lbs
Mating Connector Pull Retention Force: 20 lb

Durability

Recommended Soldering Temperature:

5 lbs. maximum 20 lbs. minimum

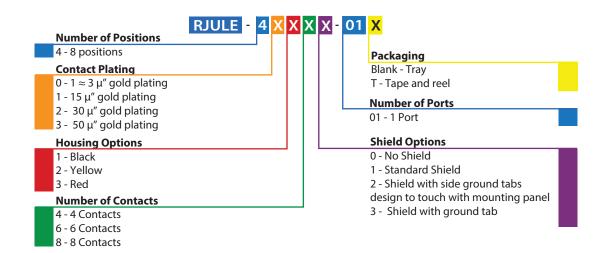
750 mating & unmating cycles IR Reflow peaked at 260°C for 5 to 8

seconds maximum.

Operating Temperature UL File #:

-55°C to + 85°C E135615

# **Ordering Information**



Didn't find what you were looking for?

Please contact sales@amphenolcanada.com and let us know what you need.

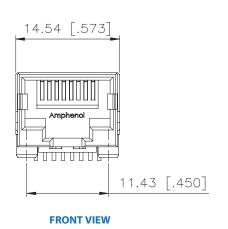
# RJULE RECESSED, LOW PROFILE

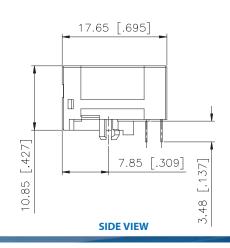
# Single Port Non-Shielded

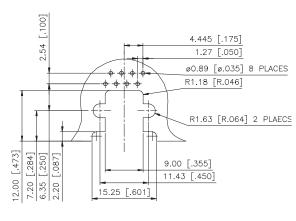
\*All drawings on this page are in millimeters[inches].

### **RJULE-4X180-01**

**RJULE-4X181-01** 



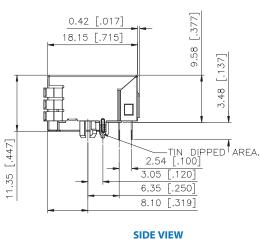


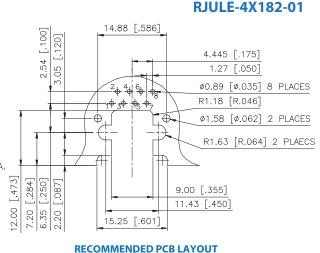


**RECOMMENDED PCB LAYOUT** 

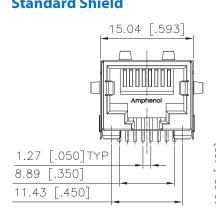
### **Shielded with Side Ground Tabs**

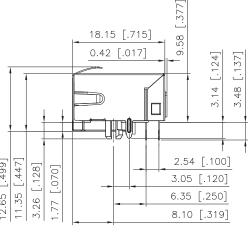
18.91 [.745] MAX 17.91 [.705] MIN 15.04 [.593] 1.27 [.050] TYP 8.89 [.350] 11.43 [.450]

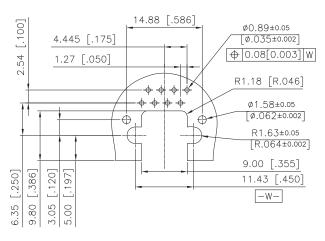




# Single Port Standard Shield







FRONT VIEW SIDE VIEW RECOMMENDED PCB LAYOUT

# **RJ45 Press Fit**

The RJE56 series is designed for applications where soldering is not an option. The press fit contacts and shield tabs have the "eye of the needle" design and provide good PCB retention as well as reliable electrical performance.



# **Specifications**

### **Material**

**Housing:** High temperature thermoplastic; complies

with

**Contacts:** UL 94V-0. Colour Black.

> Phosphor Bronze hard temper with gold thickness options (6μ", 15μ", 30μ", 50μ"), over 50μ" minimum nickel on contact mating area. 100μ" minimum tin lead plating on press fit

Shield: Stainless Steel

### **Electrical**

20 mΩ maximum **Contact Resistance: Insulation Resistance:** 500 M $\Omega$  minimum

1.5 Amps **Current Rating:** 125 Volts AC **Voltage Rating:** 

1000 VAC, 60 Hz. 1 minute **DWV:** 

### Mechanical

**Mating Connector Insertion Force: Mating Connector Pull Retention Force:** 

Durability

**Recommended Soldering Temperature:** 

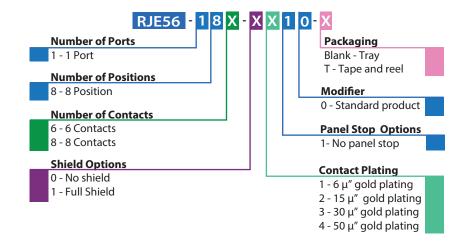
5 lbs. maximum 20 lbs. minimum

750 mating & unmating cycles IR Reflow peaked at 260°C for 5 to 8

seconds maximum.

**Operating Temperature:** -40°C to + 70°C

# **Ordering Information**



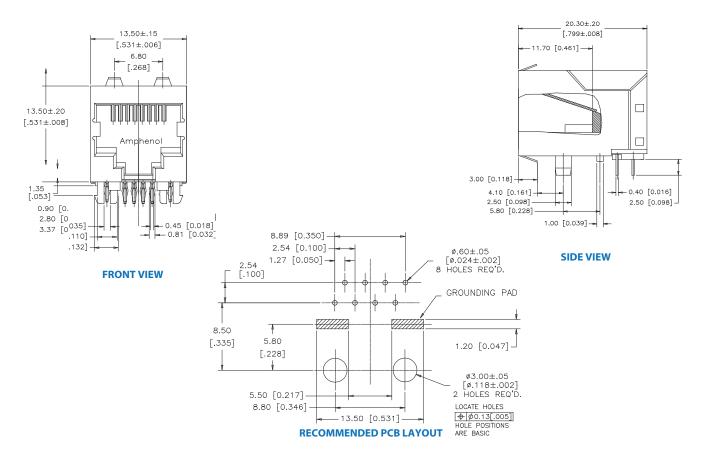
Didn't find what you were looking for?

Please contact sales@amphenolcanada.com and let us know what you need.

Single Port
Shielded

\* This drawing is in millimeters[inches]

RJE56-188-1X10



**Notes** 

# RJ45 LOW PROFILE WITH LEDS

# **RJ45 Low Profile with LEDs**

The RJE73 modular jack is a low profile RJ45 with LEDs and superior EMI shielding with a small footprint for space sensitive designs. Built in LEDs provide link activity and network verification. This product is ideal for LAN applications such as adapter cards and routers.



# **Specifications**

### **Material**

Insulator: High temperature thermoplastic; complies LED Reverse Voltage: 5 Volts minimum

> with **LED Light Intensity:** 0.4 to 1.5 mcd minimum @2mA

**Contacts:** (for single colours) UL 94V-0, Colour: Black

> 0.5 mCd minimum @20mA (for Bi-colours) Phosphor Bronze hard temper with gold

plating options 50µ" minimum nickel on LED Wave Length: Yellow: 587± 7 nm measured at 20mA Green:  $565 \pm 6$  nm measured at 20mAcontact mating area 100µ" minimum matte tin

on solder tails.

Shield: Stainless steal on tin dipped tails.

LED: Tin plating on LED tails.

### Electrical

**Contact Resistance:** 20 mΩ maximum

**Insulation Resistance:**  $500 \text{ M}\Omega$  minimum at 500 V DC for 2 mins.

max.

**Current Rating:** 1.0 Amps **Voltage Rating:** 125 Volts AC

DWV: 1000 VAC, 60 Hz. 1 minute

**LED Forward DC Current:** 20 mA typical

**LED Forward Voltage:** 1.9 Volts maximum @2mA (for single

# Mechanical

**Mating Connector Insertion Force: Mating Connector Pull Retention Force** 

**Durability:** 

**Recommended Soldering Temperature:** 

**Operating Temperature:** 

UL File #:

Red:  $625 \pm 5$  nm measured at 20mA

5 lbs. maximum 20 lbs. minimum

750 mating and unmating cycles Wave soldering peaked at 260°C for

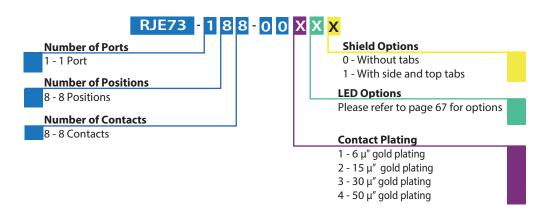
5 seconds maximum

(connectors without LEDs are suitable

for IR reflow)

-55°C to + 85°C E135615

# **Ordering Information**



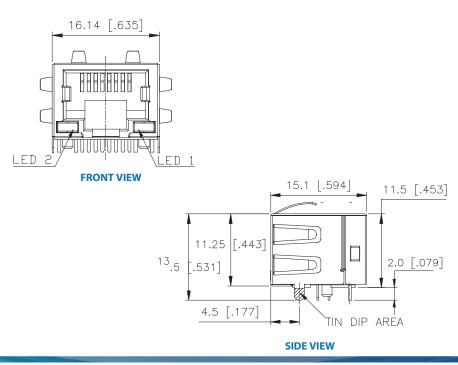
Didn't find what you were looking for?

Please contact sales@amphenolcanada.com and let us know what you need.

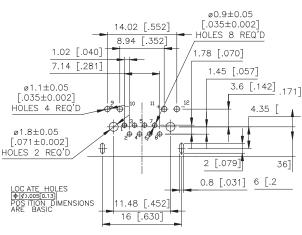
# **Single Port**

### **Shielded**

\* This drawing is in millimeters[inches]



### RJE73-188-004XX1

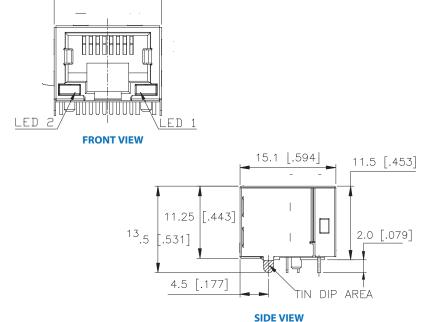


**RECOMMENDED PCB LAYOUT** 

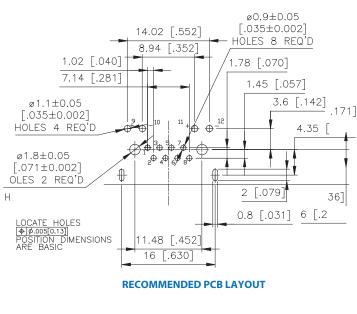
### **Shielded with Side Grounds Tabs**

\* This drawing is in millimeters[inches]

16.14 [.635]



### RJE73-188-00X-0



# RJE06 SINGLE PORT SLIM PROFILE

# **Single Port Slim Profile**

RJE06 series is a group of products within a family of standard modular jacks designed to meet requirements for a variety of applications. Options within the RJE06 family include shielded & non-shielded, and 8p8C configurations.



# **Specifications**

### Material

**Insulator:** Engineering thermoplastic. Complies with

UL 94V-0. Colour Black.

Contacts: Phosphor Bronze hard temper with gold

thickness options ( $6\mu''$ ,  $15\mu''$ ,  $30\mu''$ ,  $50\mu''$ ), over  $50\mu''$  minimum nickel on contact mating area.  $100\mu''$  minimum tin or gold flash plating on tail

Shield: area

Copper alloy; nickel plating over all.

### Mechanical

Mating Connector Insertion Force:
Mating Connector Pull Retention Force:

Durability:
Recommended Soldering Temperature:

**Operating Temperature:** 

UL File #:

5 lbs. maximum 20 lbs. minimum

750 mating & unmating cycles Wave soldering peaked at 260°C for 5 seconds maximum.

for 5 seconds maximum.
Connectors made with high temperature material are suitable for IR reflow

-40°C to + 70°C E136228

### **Electrical**

**Contact Resistance:**  $20 \text{ m}\Omega \text{ maximum}$ 

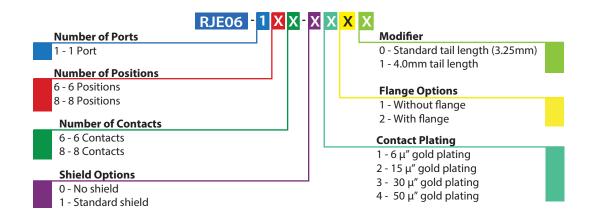
**Insulation Resistance:** 500 M $\Omega$  minimum at 500V DC for 2 mins

max.

**Current Rating:** 1.5 Amps **Voltage Rating:** 125 Volts AC

**DWV:** 1000 VAC, 60 Hz. 1 minute

# **Ordering Information**



Didn't find what you were looking for?

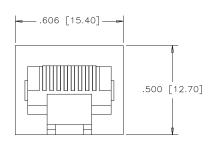
Please contact sales@amphenolcanada.com and let us know what you need

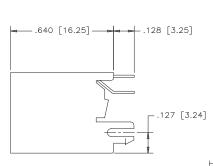
SINGLE PORT SLIM PROFILE

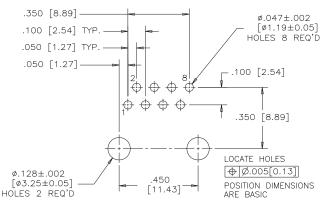
RJE06-188-0X10

# **Single Port**

**Non-Shielded** 





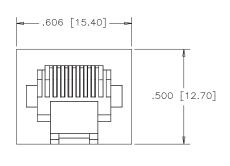


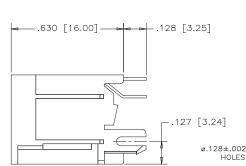
**FRONT VIEW** 

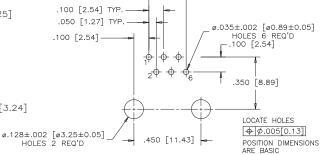
**SIDE VIEW** 

### **Shielded with Side Ground Tabs**

### RJE06-166-0X10







.250 [6.35]-

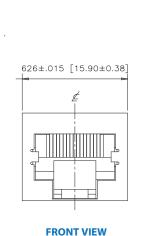
FRONT VIEW

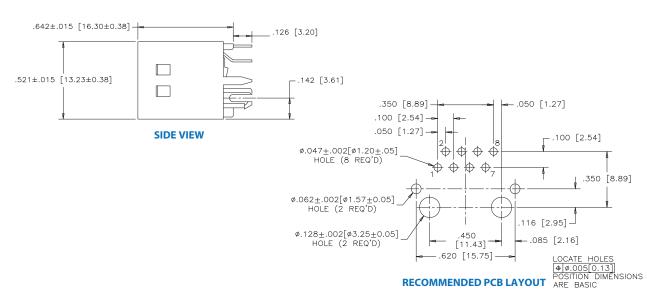
**SIDE VIEW** 

RECOMMENDED PCB LAYOUT

# Single Port Standard Shield

### RJE06-188-1X10





# **Single Port Standard Profile**

RJE08 series is a group of products within a family of standard modular jacks designed to meet requirements for a variety of applications. Options within the RJE08 include with and without panel stops, and RJ11 and RJ45 configurations.



# **Specifications**

### **Material**

Insulator: Engineering thermoplastic. Complies with UL

94V-0.

**Contacts:** Colour: Black.

> Phosphor Bronze hard temper with gold thickness options (6μ", 15μ", 30μ", 50μ"), over 50μ" minimum nickel on contact mating area. 100µ" minimum matte tin or gold flash plating

on tail area. **Electrical** 

**Contact Resistance:**  $25 \text{ m}\Omega \text{ maximum}$ 

**Insulation Resistance:**  $500 M\Omega$  minimum at 500V DC for 2 mins.

max.

**Current Rating:** 1.5 Amps **Voltage Rating:** 125 Volts AC

DWV: 1000 VAC, 60 Hz. 1 minute

### **Mechanical**

**Mating Connector Insertion Force:** 5 lbs. maximum Mating Connector Pull Retention Force: 20 lbs. minimum

**Durability** 

**Shield Options** 

0 - No shield

750 mating & unmating cycles Recommended Soldering Temperature: Wave soldering peaked at 260°C for

5 seconds maximum.

Connectors made with high temperature material are suitable for IR reflow.

**Operating Temperature:** -40°C to +85°C UL File #: E136228

### **Ordering Information** RJE08 - 1 X X - 0 X X 0 **Number of Ports** Modifier 1 - 1 Port 0 - Standard product Flange Options **Number of Positions** 1 - Without flange 4 - 4 Positions 2 - With flange 6 - 6 Positions 8 - 8 Positions **Contact Plating** A-10 Positions 1 - 6 μ" gold plating **Number of Contacts** $2 - 15 \mu''$ gold plating 4 - 4 Contacts $3 - 30 \mu''$ gold plating $4-50\,\mu^{\prime\prime}$ gold plating 6 - 6 Contacts

Didn't find what you were looking for?

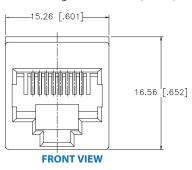
Please contact sales@amphenolcanada.com and let us know what you need.

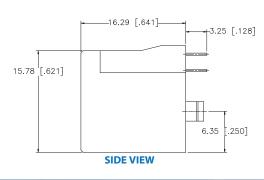
8 - 8 Contacts

A - 10 Contacts

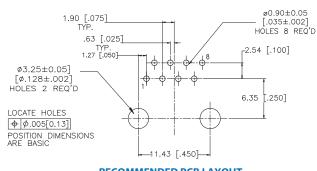
# Single Port Non-Shielded

\*This drawing is in millimeters[inches]





### RJE08-188-0X10



# **Single Port Surface Mount**

The RJE23 series is designed for high volume production where a vertical modular jack is required. Shielding provides increased EMI performance. Surface mount contacts and hold-down nail bracket assist in speeding up the production process.



125 Volts AC

# **Specifications**

**Material** 

High temperature thermoplastic. Complies with Insulator:

UL 94V-0.

Colour: Black. Contacts:

> Phosphor Bronze hard temper with gold thickness options (6μ", 15μ", 30μ", 50μ"), over 50μ" minimum nickel on contact mating area. 100µ" minimum matte tin over nickel on soldering tail.

**Hold Down:** Copper alloy plated with bright tin.

**Coplanarity:** Maximum gap between all terminal tails is 0.004" DWV:

**Mating Connector Insertion Force:** 5 lbs. maximum Mating Connector Pull Retention Force: 20 lbs. minimum

Durability

**Voltage Rating:** 

Mechanical

750 mating & unmating cycles Recommended Soldering Temperature: IR Reflow peaked at 260°C for

5 - 8 seconds maximum.

1000 VAC, 60 Hz. 1 minute

-40°C to + 70°C **Operating Temperature** 

### **Electrical**

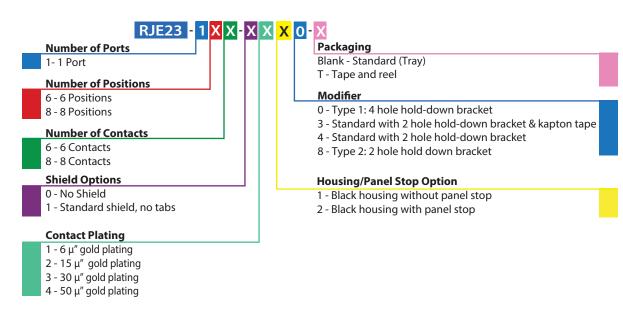
**Contact Resistance:** 20 mΩ maximum

 $500 \text{ M}\Omega$  minimum at 500 V DC for 2 mins. **Insulation Resistance:** 

max.

**Current Rating:** 1.5 Amps

# **Ordering Information**

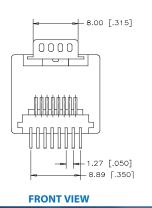


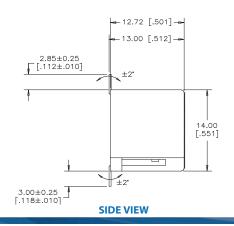
Didn't find what you were looking for?

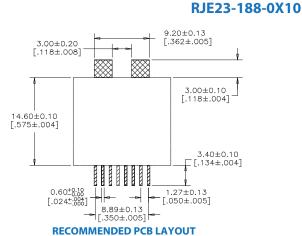
Please contact sales@amphenolcanada.com and let us know what you need.

# Single Port Non - Shielded

\* This drawing is in millilmeters[inches].



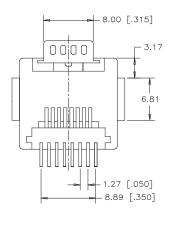


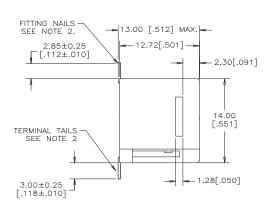


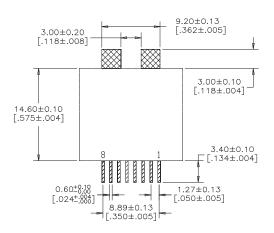
Non - Shielded

\* This drawing is in millilmeters[inches].

RJE23-188-0X20







**FRONT VIEW** 

SIDE VIEW

RECOMMENDED PCB LAYOUT

**Notes** 

# **Single Port Surface Mount**

The RJE74 series, with superior EMI shielding, is built to fit your modular jack requirements. The vertical 10P10C version is available with an RMK4 key interface to prevent an 8P8C plug from entering and damaging the connector. Includes optional mylar cover for automated assembly equipment.



# **Specifications**

### **Material**

**Insulator:** High temperature thermoplastic. Complies with

UL 94V-0.

Contacts: Colour: Black.

Phosphor Bronze hard temper with  $30\mu''$  minimum gold thickness over  $50\mu''$  minimum nickel on contact mating area.  $100\mu''$  minimum

matte tin plating on soldering tail. Stainless steel; pure tin dipped tails

**LED:** Tin plating on LED tails

### **Electrical**

Shield:

**Contact Resistance:** 20 mΩ maximum

**Insulation Resistance:**  $500 \text{ M}\Omega$  minimum at 500 V DC for 2 mins.

max.

**Current Rating:** 1.5 Amps **Voltage Rating:** 125 Volts AC

**DWV:** 1000 VAC, 60 Hz. 1 minute

### **Mechanical**

Mating Connector Insertion Force:

**Mating Connector Pull Retention Force:** 

**Durability:** 

**Recommended Soldering Temperature:** 

**Operating Temperature:** 

UL File #:

5 lbs. maximum 20 lbs. minimum

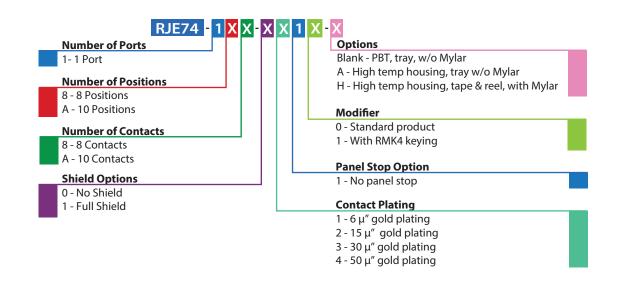
750 mating & unmating cycles IR Reflow peaked at 260°C for

5 - 8 seconds maximum.

-55°C to +85°C

E135615

# **Ordering Information**



# RJE74

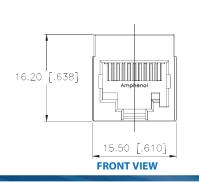
SINGLE PORT

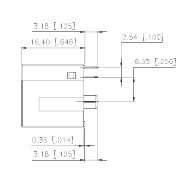
\*All drawings on this page are in millimeters[inches].

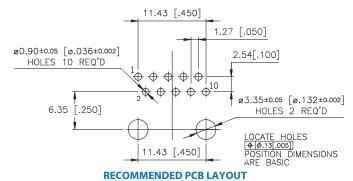
# Single Port

# **Non-Shielded with Keying**

# RJE74-1AA-0X11

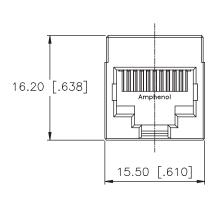


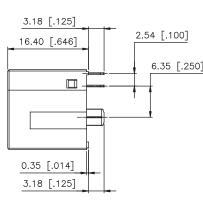


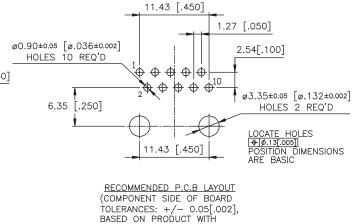


### Non - Shielded

RJE74-1AA-0X10







FRONT VIEW

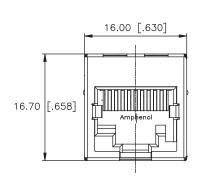
**SIDE VIEW** 

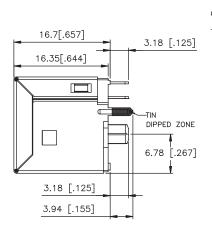
**RECOMMENDED PCB LAYOUT** 

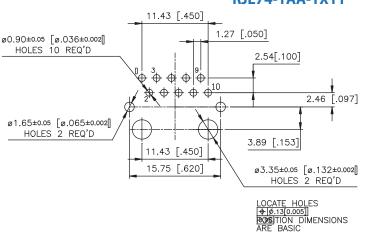
SHIELD)

# **Shielded with Keying**

### RJE74-1AA-1X11







**FRONT VIEW** 

SIDE VIEW

**RECOMMENDED PCB LAYOUT** 

SINGLE PORT, VERTICAL, WITH LEDS

# Right Angled, Recessed, Low Profile

Vertical through-hole (THT) in single port RJ45 configurations with full shield or superior EMI protection. A variety of LED options for link-activity and network verification are available. Made with high temperature composite and when accompanied with our high temperature resistant LEDs, these connectors are well suited for the IR reflow process.



# **Specifications**

**Material** 

Insulator: High temperature thermoplastic. Complies with UL

94V-0.

Contacts: Colour: Black.

> Phosphor Bronze hard temper with gold thickness option (6 $\mu$ ", 15 $\mu$ ", 30 $\mu$ ", 50 $\mu$ "), over 50 $\mu$ " minimum nickel on contact mating area. 100µ" minimum

matte tin on solder tail.

Shield: Stainless steel with tin dipped tails.

LED: Tin plating on LED tails.

**Electrical** 

**Contact Resistance:** 20 mΩ maximum

**Insulation Resistance:** 500 M $\Omega$  minimum at 500V DC for 2 mins.

**Current Rating:** 1.5 Amps **Voltage Rating:** 125 Volts AC

DWV: 1000 VAC, 60 Hz. 1 minute

**LED Forward DC Current:** 2.6 Volts maximum @2mA (for Bi-colours)

**LED Forward Voltage:** 20mA typical

1.9 Volts maximum @2mA (for single colours)

**LED Reverse Voltage:** 5 Volts minimum **LED Light Intensity:** 0.4 to 1.5 mCd @2mA

(for single colors)

**LED Wave Length:** 0.5 mcd min. @2mA (for Bi-colours)

Yellow: 587± 7 nm measured at 20mA Green:  $565 \pm 6$  nm measured at 20mA

Red:  $625 \pm 5$  nm measured at 20mA

### **Mechanical**

**Mating Connector Insertion Force:** 5 lbs. maximum Mating Connector Pull Retention Force: 20 lbs. minimum

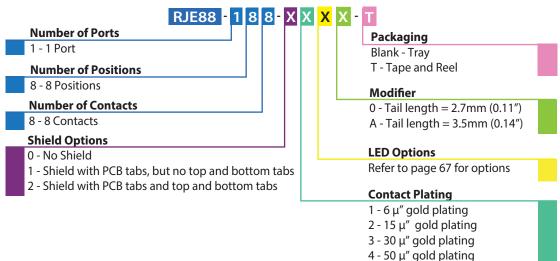
**Durability:** 

750 mating & unmating cycles **Recommended Soldering Temperature:** Wave soldering peaked at 260°C

for 5 seconds maximum.

**Operating Temperature:** -55°C to + 85°C

# **Ordering Information**



# **Single Port**

### **Shielded**

\*This drawing is in millimeters[inches].

### **RJE88-188-1XXX**

1.27 [.050]

2.54[.100]

7.02

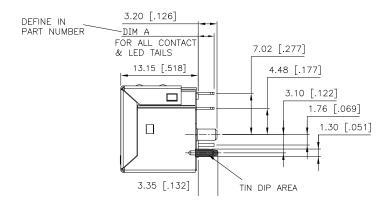
0.75 [.030]

7.85 [.309]

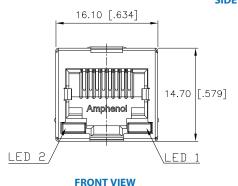
3.10 [.122]

1.76 [.069]

ø2.00±0.05 [ø.079±.002] \_UNPLATED\_HOLES\_2\_REQ'D



### **SIDE VIEW**



RECOMMENDED PCB LAYOUT

NS 11.43 [.450] 15.75 [.620] RECOMMENDED P.C.B LAYOUT (COMPONENT SIDE OF BOARD TOLERANCES: +/- 0.05[.002])

8.89 [.350]

1.27 [.050]

ø0.90±0.05 [ø.035±.002]

PLATED HOLES 8 REQ'D

ø1.70±0.05 [ø.067±.002] PLATED HOLES 2 REQ'D

ø1.10±0.05

[ø.043±.002] HOLES 4 REQ'D

LOCATE HOLES

[♦|Ø0.13[.005]]

POSITION DIMENSIONS

ARE BASIC

2.54 [.100]

**Notes** 

# 2, 4, and 8 Ports with LEDs and Shield Options

The RJSAE is a RJ45 stackable connector that reduces component and labour costs by incorporating LEDs into the connector. Its stackable feature enables more ports with the same board space. With superior EMI performance, the option of configuring your connector with a ferrite filter is available to further reduce crosstalk in noisy applications. Amphenol offers a variety of other options such as shielded and unshielded and a variety of LED combinations and port configurations.



# **Specifications**

### **Material**

**Insulator:** High temperature thermoplastic; with UL

94V-0.

Contacts: Colour: Black

Phosphor Bronze hard temper with gold thickness options ( $6\mu''$ ,  $15\mu''$ ,  $30\mu''$ ,  $50\mu''$ ), over  $50\mu''$  minimum nickel on contact mating area.

**Shield:** 100µ" minimum matte tin plating on soldering

LED: tai

Copper alloy; nickel plated with pure in dipped

tail

Pure tin plating on LED tail

### **Electrical**

**Contact Resistance:**  $20 \text{ m}\Omega \text{ maximum}$ 

**Insulation Resistance:** 500 M $\Omega$  minimum at 500V DC for 2 mins.

max.

Current Rating: 1.5 Amps
Voltage Rating: 125 Volts AC

**DWV:** 1000 VAC, 60 Hz. 1 minute

**LED Forward DC Current:** 20 mA typical

**LED Forward Voltage:** 1.9 Volts maximum @2mA (for single colors)

2.6 Volts maximum @20mA (for bi-colors)

**LED Reverse Voltage:** 5 Volts minimum

**LED Light Intensity:** 0.4 to 1.5 mCd minimum @2mA

(for single colors)

0.5 mCd minimum @20mA (for bi-colors)
Yellow: 587± 7 nm measured at 20mA
Green: 565 ± 6 nm measured at 20mA

Red: 625 ± 5 nm measured at 20mA

### **Mechanical**

**Mating Connector Insertion Force:** 5 II

**Durability:** 

UL File #:

CSA File #:

**Recommended Soldering** 

**Operating Temperature:** 

**Temperature:** 

5 lbs. maximum 20 lbs. minimum

750 mating and unmating cycles Wave soldering peaked at 260°C for

5 seconds maximum

(connectors without LEDs are suitable for IR reflow)

-55°C to + 85°C E135615

150190

# **Ordering Information**

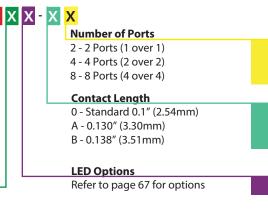
# Versions 5 - 8 positions, 50 μ" gold plating 7 - 6 positions, 50 μ" gold plating 8 - 8 positions over 6, 50 μ" gold plating Shield Options 0 - No Shield 2 - Shield with top and side tabs, with filter 3 - Shield with top and side tabs, no filter F - Shield without top and side tabs

### **Number of Contacts**

4 - 4 Contacts

6 - 6 Contacts

8 - 8 Contacts



BOTTOM LED 2

BOTTOM LED 1

.090 [2.29]

.205 [5.21] -

### **Single Port Non-Shielded RJSAE-508X-02** .540 [13.72] .100 [2.54] TYP. .100 [2.54] TYP. .050 [1.27] TYP. .165 [4.19] .620 [15.75] -.325 [8.25] TOP LED 1 - .570 [14.48] TOP LED 2-**→** 1.078 [27.38] **→** .100 [2.54] TYP. .825 [20.95] .100 [2.54] TYP. .990 [25.15]

FRONT VIEW SIDE VIEW RECOMMENDED PCB LAYOUT

### Shielded RJSAE-538X-02

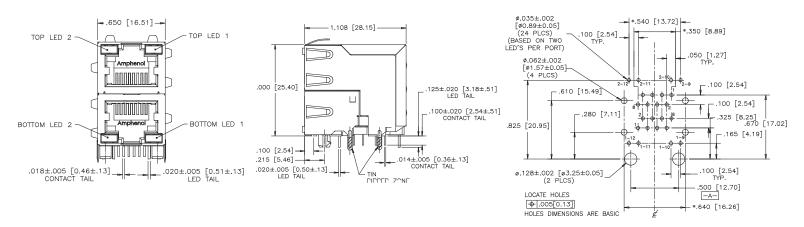
.100 [2.55]

.125 [3.18]

Ø.128±.002 [Ø3.25±0.05] HOLES 2 REQD.

.075 [1.91] .350 [8.89]

.500 [12.70]



FRONT VIEW SIDE VIEW RECOMMENDED PCB LAYOUT

# Multi Port Non-Shielded

# TOP LED 1 TOP LED 2 Amphenol Amphenol

# RJSAE-508X-08

ø.035±.002 [ø0.89±0.05]

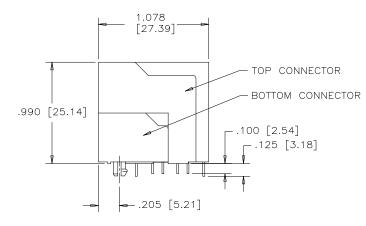
-.020 [0.51]

LOCATE HOLES

ARE BASIC

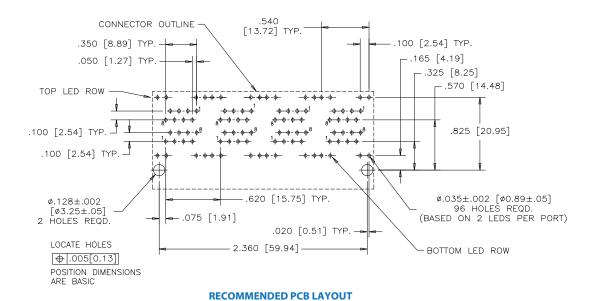
⊕ .005[0.13]
POSITION DIMENSIONS

HOLES 24 REQD. (BASED ON 2 LEDS PER PORT)

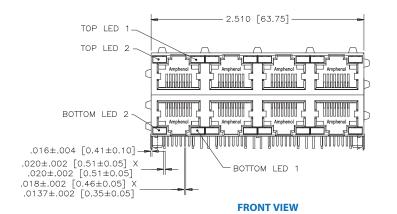


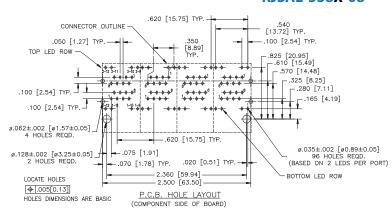
# Multi Port Non-Shielded

**RJSAE-508X-08** 

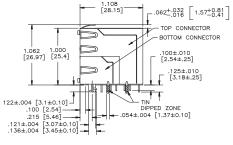


# Shielded RJSAE-538X-08





**RECOMMENDED PCB LAYOUT** 



# 4 Over 4 Ports with LED and Shield Options

The RJSNE series is a stacked onnector that offers LED options for link activity and network verification. It is available with or without shielding. The RJSNE series also includes a unique inner shield device to reduce the crosstalk between top and bottom ports.



# **Specifications**

### **Material**

**Insulator:** High temperature thermoplastic; with UL

94V-0.

**Contacts:** Colour: Black

Phosphor Bronze hard temper with gold thickness options ( $6\mu''$ ,  $15\mu''$ ,  $30\mu''$ ,  $50\mu''$ ), over  $50\mu''$  minimum nickel on contact mating area.

 $100\mu''$  minimum matte tin plating on soldering

tail.

**Shield:** Copper alloy; nickel plated with pure in dipped

tail.

**LED:** Pure tin plating on LED tail

Electrical

**Contact Resistance:**  $20 \text{ m}\Omega \text{ maximum}$ 

**Insulation Resistance:** 500 MΩ minimum at 500V DC for 2 mins.

max.

Current Rating: 1.5 Amps
Voltage Rating: 125 Volts AC

**DWV:** 1000 VAC, 60 Hz. 1 minute

**LED Forward DC Current:** 20 mA typical

**LED Forward Voltage:** 1.9 Volts maximum @2mA (for single colors)

2.6 Volts maximum @20mA (for bi-colors)

**LED Reverse Voltage:** 5 Volts minimum

**LED Light Intensity:** 0.4 to 1.5 mCd minimum @2mA

(for single colors)

0.5 mCd minimum @20mA (for bi-colors) **LED Wave Length:** Yellow: 587± 7 nm measured at 20mA

Green:  $565 \pm 6$  nm measured at 20mA Red:  $625 \pm 5$  nm measured at 20mA

### **Mechanical**

Mating Connector Insertion Force: 5 lbs. maximum

Durability: 20 lbs. minimum

**Recommended Soldering**750 mating and unmating cycles
Wave soldering peaked at 260°C for

5 seconds maximum

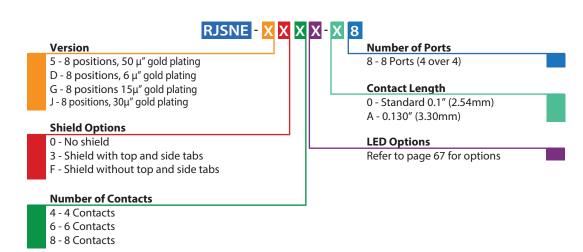
(connectors without LEDs are suitable for IR reflow)

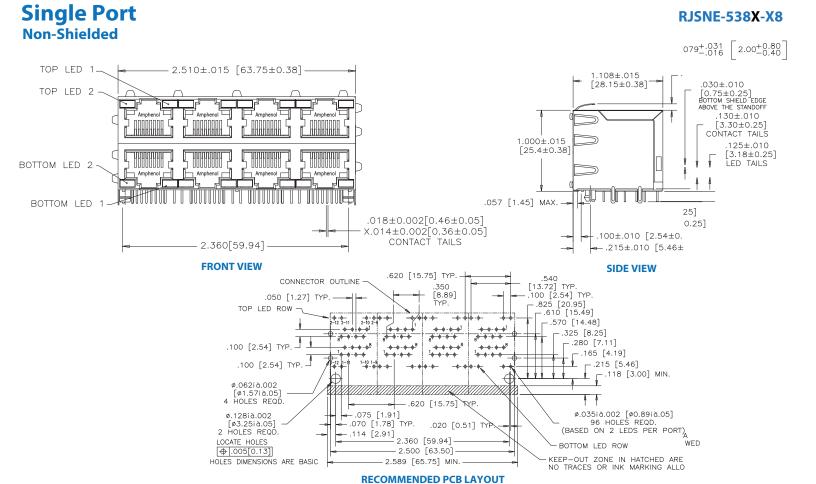
 Operating Temperature:
 -55°C to +85°C

 UL File #:
 E135615

 CSA File #:
 150190

# **Ordering Information**





**Notes** 

# RJE48

CAT 5e, RIGHT ANGLED, LOW PROFILE

# Right Angled, Low Profile

The RJE48 series of modular jacks meet CAT5e performance per EIA-568-C.2. It supports Gigabit Ethernet Protocols. Shielding available for increased EMI performance and LEDs for link activity and network verification.



5 Volts minimum

(for single colors)

0.4 to 1.5 mCd @2mA

# **Specifications**

### **Material**

**Insulator:** High temperature thermoplastic. Complies with UL

94V-0.

Contacts: Colour: Black.

Phosphor Bronze hard temper with gold thickness option ( $6\mu''$ ,  $15\mu''$ ,  $30\mu''$ ,  $50\mu''$ ), over  $50\mu''$  minimum

nickel on contact mating area.

**Shield:** Stainless steel with tin dipped tails.

**LED:** Tin plating on LED tails.

# LED Wave Length:

**Mechanical** 

**LED Reverse Voltage:** 

**LED Light Intensity:** 

Mating Connector Insertion Force: 5 lbs. maximum
Mating Connector Pull Retention Force: 20 lbs. minimum

**Durability:** 750 mating & unmating cycles **Recommended Soldering Temperature:** Wave soldering peaked at 260°C

for 5 seconds maximum.

0.5 mCd min. @2mA (for bi-colours)

Yellow: 587±7 nm measured at 20mA

Green:  $565 \pm 6$  nm measured at 20mA

Red:  $625 \pm 5$  nm measured at 20mA

**Operating Temperature:**  $-55^{\circ}\text{C to} + 85^{\circ}\text{C}$ 

### **Electrical**

**Contact Resistance:** 20 mΩ maximum

**Insulation Resistance:** 500 M $\Omega$  minimum at 500V DC for 2 mins.

max.

Current Rating: 1.25 Amps
Voltage Rating: 125 Volts AC

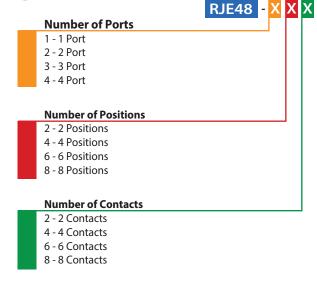
**DWV:** 1000 VAC, 60 Hz. 1 minute

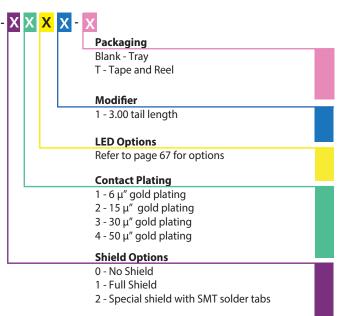
**LED Forward DC Current:** 20mA typical

**LED Forward Voltage:** 1.9 Volts maximum @2mA (for single colours)

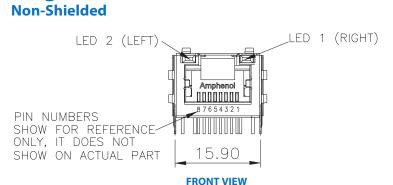
2.6 Volts maximum@20mA (for Bi-colours)

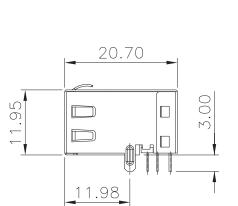
# **Ordering Information**



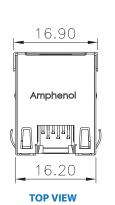


# **Single Port**

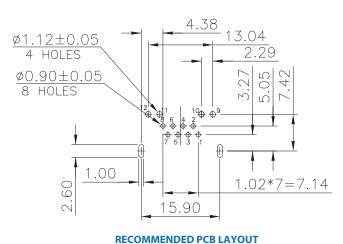


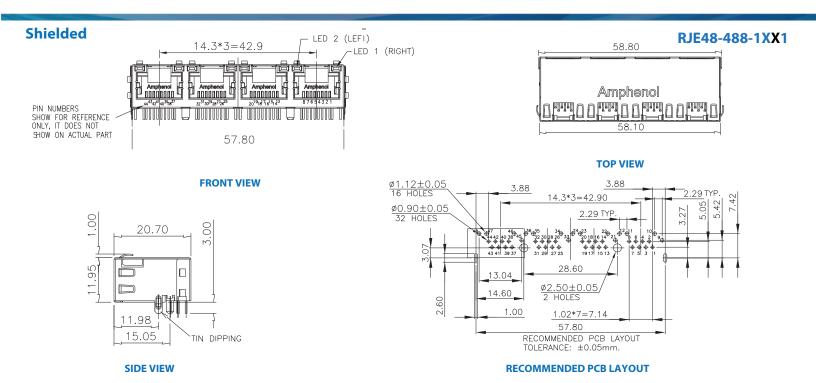


**SIDE VIEW** 



**RJE48-188-1XX1** 





# Right Angled, Standard Profile

The RJE58 series of modular jacks meet Cat5e performance per EIA-568-C.2. It supports Gigabit Ethernet Protocols. Shielding available for increased EMI performance and LEDs for link activity and network speed verification.



# **Specifications**

### **Material**

**Insulator:** High temperature thermoplastic. Complies with UL 94V-0.

Colour: Black.

Contacts: Phosphor Bronze hard temper with gold thickness option

 $(6\mu'', 15\mu'', 30\mu'', 50\mu'')$ , over  $50\mu''$  minimum nickel on

contact mating area.

Shield: Stainless steel with tin dipped tails. LED: Tin plating on LED tails. Expoxy lens. **LED Reverse Voltage:** 5 Volts minimum **LED Light Intensity:** 0.4 to 1.5 mCd @2mA

(for single colors)

0.5 mCd min. @2mA (for bi-colours) Yellow: 587± 7 nm measured at 20mA **LED Wave Length:** 

Green:  $565 \pm 6$  nm measured at 20mARed:  $625 \pm 5$  nm measured at 20mA

750 mating & unmating cycles

for 5 seconds maximum.

# **Electrical**

**Contact Resistance:** 20 mΩ maximum

**Insulation Resistance:** 

**Current Rating:** 1.25 Amps **Voltage Rating:** 125 Volts AC

DWV: 1000 VAC, 60 Hz. 1 minute

**LED Forward DC Current:** 20mA typical

**LED Forward Voltage:** 1.9 Volts maximum @2mA (for single colours)

2.6 Volts maximum@20mA (for Bi-colours)

### Mechanical

**Mating Connector Insertion Force:** 5 lbs. maximum Mating Connector Pull Retention Force: 20 lbs. minimum

**Durability:** 

500 M $\Omega$  minimum at 500V DC for 2 mins. **Recommended Soldering Temperature:** Wave soldering peaked at 260°C

-55°C to +85°C **Operating Temperature:** 

# **Ordering Information**

# 1 8 8 - X X X **Number of Ports** 1 - 1 Port **Number of Positions** 8 - 8 Positions **Number of Contacts** 8 - 8 Contacts **Number of Positions** 0 - Shield 5 - Full shield with top and side tabs 6 - Full shield with no tabs 7 - Full shield with top, bottom, and side tabs

### **Packaging** Blank - Tray

T - Tape and Reel

### Modifier

- 1 Standard boardlock
- 2 With no boardlock
- 3 With no boardlock & extra ground tail

### **LED Options**

Refer to page 67 for options

### **Contact Plating**

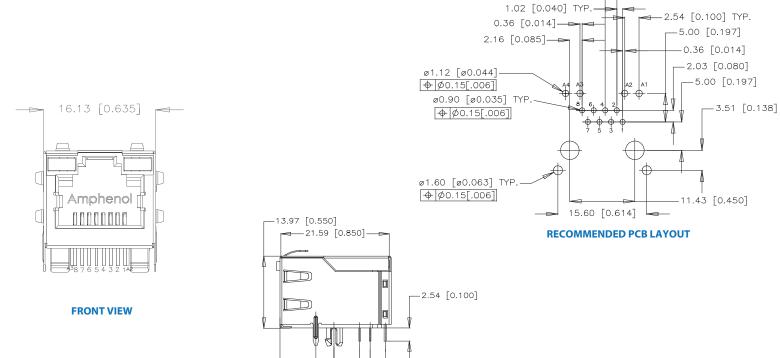
- 1 6 μ" gold plating
- $2 15 \mu''$  gold plating
- 3 30 μ" gold plating
- 4 50 μ" gold plating

RJE58-188-5XX1

2.03 [0.080] TYP.-

# **Single Port**

Non-Shielded



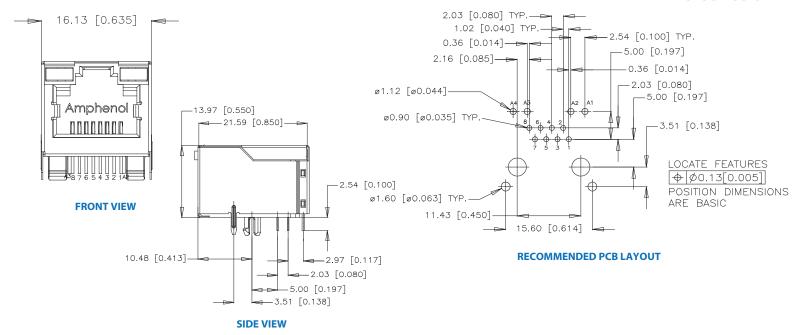
# Shielded RJE58-188-6XX1

**SIDE VIEW** 

-2.97 [0.117]

2.03 [0.080] 5.00 [0.197] 3.51 [0.138]

10.48 [0.413]-



# Right Angled, Recessed, Low Profile

The RJE72 series of modular jacks meet category 5e performance per EIA-568-C.2. It supports Gigabit Ethernet Protocols. Shielding available for increased EMI performance and LEDs for link activity and network speed verification.



# **Specifications**

### **Material**

**Insulator:** High temperature thermoplastic. Complies with UL

94V-0.

**Contacts:** Colour: Black.

> Phosphor Bronze hard temper with gold thickness option (6 $\mu$ ", 15 $\mu$ ", 30 $\mu$ ", 50 $\mu$ "), over 50 $\mu$ " minimum nickel on contact mating area. 100µ" minimum

matte tin on solder tail.

Shield: Stainless steel with tin dipped tails. LED: Tin plating on LED tails. Expoxy lens.

Electrical

**Contact Resistance:** 20 mΩ maximum

**Insulation Resistance:** 500  $M\Omega$  minimum at 500V DC for 2 mins.

**Current Rating:** 1.25 Amps **Voltage Rating:** 125 Volts AC

DWV: 1000 VAC, 60 Hz. 1 minute

**LED Forward DC Current:** 20mA typical

**Ordering Information** 

**LED Forward Voltage:** 1.9 Volts maximum @2mA (for single colours)

8 - 8 Positions

8 - 8 Contacts

**Shield Options** 

1 - Full shield

**Number of Contacts** 

**LED Reverse Voltage:** 5 Volts minimum **LED Light Intensity:** 0.4 to 1.5 mCd @2mA

(for single colors)

**LED Wave Length:** Yellow: 587± 7 nm measured at 20mA Green: 565 ± 6 nm measured at 20mA

Red:  $625 \pm 5$  nm measured at 20mA

### Mechanical

**Mating Connector Insertion Force:** Mating Connector Pull Retention Force:

**Durability:** 

Recommended Soldering Temperature:

**Operating Temperature:** UL File #:

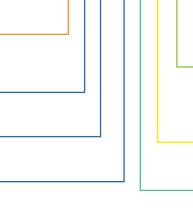
5 lbs. maximum 20 lbs. minimum

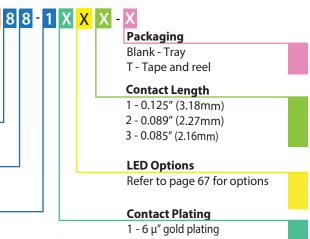
750 mating & unmating cycles IR Reflow peaked at 260°C for

5 - 8 seconds maximum.

-55°C to +85°C E135615

**Number of Ports** 1 - 1 Port 4 - 4 Ports **Number of Positions** 

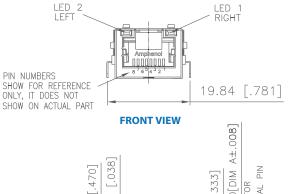




 $2 - 15 \mu''$  gold plating 3 - 30 μ" gold plating

CAT 5e RIGHT ANGLED, RECESSED, LOW PROFILE

# **Single Port**



11.95 [.470] DIM A±0.20[DIM AND SIGNAL LENGTH FOR 0.97 20.70 [.815] 8.47 TAIL 8.98 [.354] DIPPED ZONE 13.75 [.541] **SIDE VIEW** 

# **RJE72 - 188 - 14X1** 16.90 [.665] Amphenol 16.20 [.638] **TOP VIEW** 16.90 [.665] 7.68 [.302] Ø0.90±0.05 [Ø.035±.002] 3.04 [.513] 10.42 8.05 6.27 Ø0.90±0.05 2.61

**RECOMMENDED PCB LAYOUT** 

19.84 [.781

RECOMMENDED PCB LAYOUT TOLFPANCF: +0 05[ 002]mm

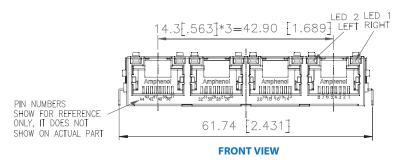
2.40 [.094] [.200]

5.07

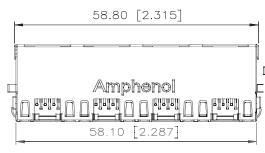
1.00 [.039]

16.20 [.638]

# **Multi Port Shielded**



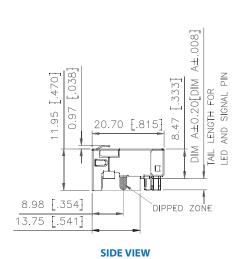
# RJE72 - 488 - 14X1

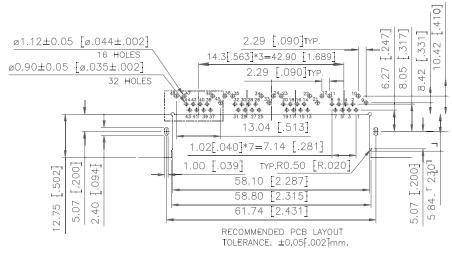


R0.50 [R.020]

.02[.040]\*7=7.14 [.281]

**TOP VIEW** 





RECOMMENDED PCB LAYOUT

# Right Angled, Recessed, Low Profile

The RJE71 series of modular jacks meet category 6 performance per EIA-568-C.2. It supports Gigabit Ethernet Protocols. Shielding available for increased EMI performance and LEDs for link activity and network speed verification.



# **Specifications**

### **Material**

**Insulator:** High temperature thermoplastic. Complies with UL

94V-0.

Contacts: Colour: Black.

Phosphor Bronze hard temper with gold thickness option ( $6\mu$ ",  $15\mu$ ",  $30\mu$ ",  $50\mu$ "), over  $50\mu$ " minimum nickel on contact mating area.  $100\mu$ " minimum

matte tin on solder tail.

Shield: Stainless steel with tin dipped tails.

LED: Tin plating on LED tails. Expoxy lens.

**Electrical** 

**Contact Resistance:**  $20 \text{ m}\Omega \text{ maximum}$ 

**Insulation Resistance:** 500 M $\Omega$  minimum at 500V DC for 2 mins.

max.

Current Rating: 1.25 Amps Voltage Rating: 1.25 Volts AC

**DWV:** 1000 VAC, 60 Hz. 1 minute

**LED Forward DC Current:** 20mA typical

**LED Forward Voltage:** 1.9 Volts maximum @2mA (for single colours)

LED Reverse Voltage: 5 Volts minimum 0.4 to 1.5 mCd @2mA (for single colors)

**LED Wave Length:** Yellow: 587± 7 nm measured at 20mA

Green: 565 ± 6 nm measured at 20mA Red: 625 + 5 nm measured at 20mA

### **Mechanical**

Mating Connector Insertion Force:5 lbs. maximumMating Connector Pull Retention Force:20 lbs. minimum

**Durability:** 

750 mating & unmating cycles

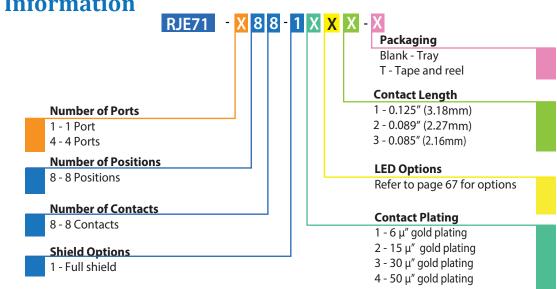
**Recommended Soldering Temperature:** IR Reflow peaked at 260°C for

: IR Reflow peaked at 260°C to 5 - 8 seconds maximum.

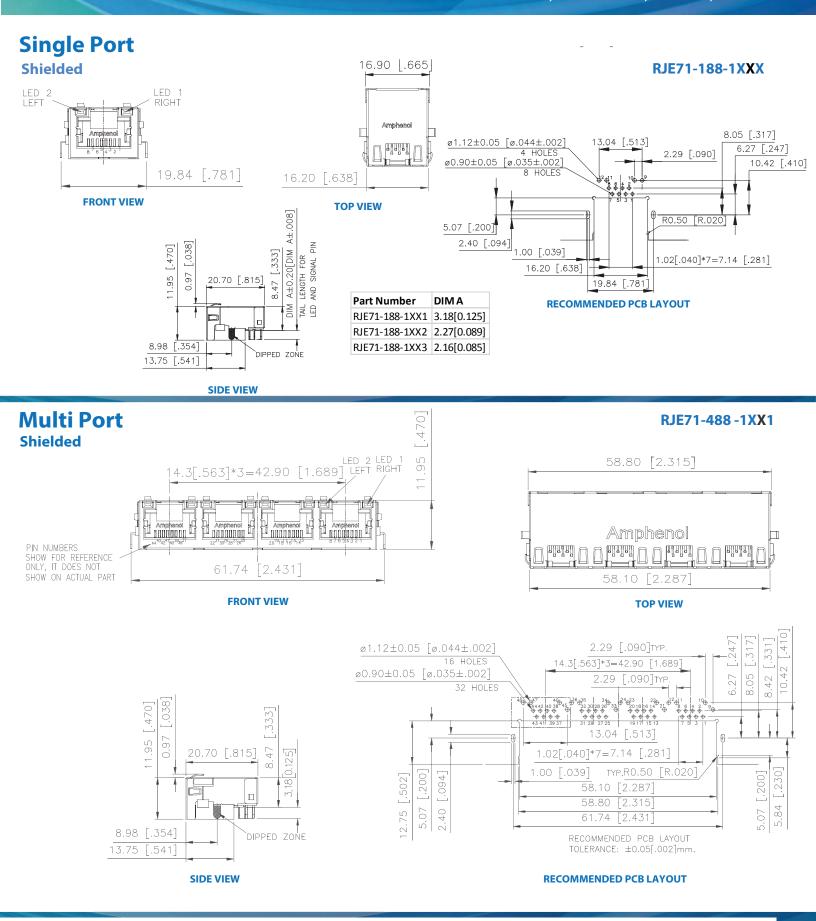
 Operating Temperature:
 -55°C to + 85°C

 UL File #:
 E135615

# **Ordering Information**



CAT 6, RIGHT ANGLED, RECESSED, LOW PROFILE





# **CAT 6, Single Port**

The RJE45 series of modular jacks meet category 6 performance per EIA-568-C.2. It supports Gigabit Ethernet Protocols and 10 Gig links in applications up to 50m. Shielding available for increased EMI performance and LEDs for link activity and network speed verification.



# **Specifications**

### **Material**

Insulator: High Temp thermoplastic. Complies with UL

94V-0.

Contacts: Colour: Black.

> Phosphor Bronze hard temper with gold thickness options (6µ", 15µ", 30µ", 50µ"), over 50µ" minimum nickel on contact mating area. 100µ" minimum matte tin plating on solder

**Electrical** 

**Contact Resistance:**  $25 \text{ m}\Omega \text{ maximum}$ 

Insulation Resistance: 5000  $M\Omega$  minimum at 500V DC for 2 mins.

max.

**Current Rating:** 1.25 Amps **Voltage Rating:** 125 Volts AC

DWV: 1000 VAC, 60 Hz. 1 minute

**LED Forward DC Current:** 20mA typical

**LED Forward Voltage:** 1.9 Volts maximum @2mA

**LED Reverse Voltage:** 5 Volts minimum **LED Light Intensity:** 0.4 to 1.5 mCd @2mA

**LED Wave Length:** Yellow: 587± 7 nm measured at 20mA Green:  $565 \pm 6$  nm measured at 20mA

**Mechanical** 

**Mating Connector Insertion Force:** 20 lbs. minimum **Mating Connector Pull Retention Force:** 

Durability

**Recommended Soldering Temperature:** 

**Operating Temperature** 

5 lbs. maximum

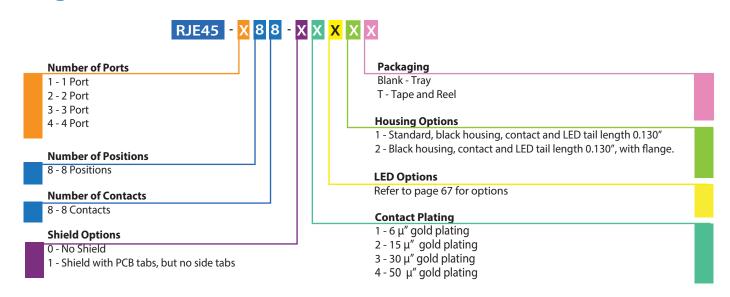
Red:  $625 \pm 5$  nm measured at 20mA

750 mating & unmating cycles Wave soldering peaked at 260°C

for 10 seconds maximum.

-55°C to +85°C

# **Ordering Information**

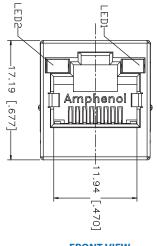


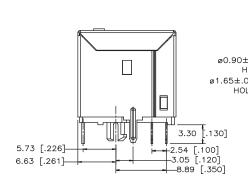
Didn't find what you were looking for?

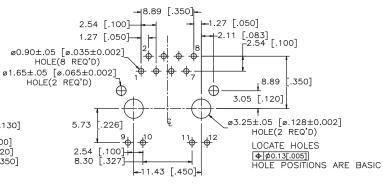
Please contact sales@amphenolcanada.com and let us know what you need.

# **Single Port**

### RJE45-188-1XX1



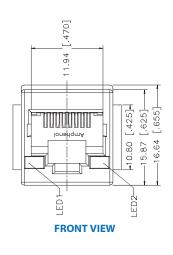


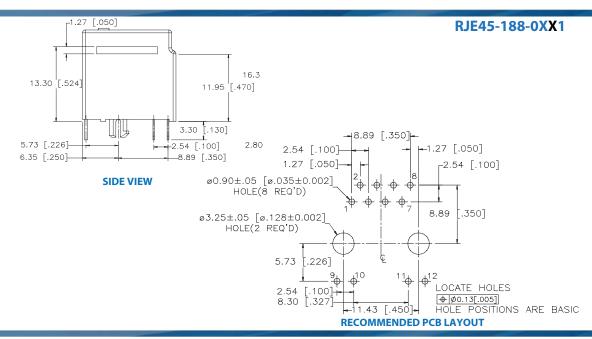


FRONT VIEW SIDE VIEW

### **RECOMMENDED PCB LAYOUT**

# **Single Port**





Notes



# **RJ45 Coupler**

The RJE17 coupler provides connections through barriers such as equipment covers and panels. They are locked into place with a panel latch for secure mounting. Available in category 3 and category 5 performance. The added shielding provides optional EMI protection.



# **Specifications**

### **Material**

**Insulator:** Engineering thermoplastic. Complies with UL

94V-0.

Contacts: Colour: Black.

Phosphor Bronze hard temper with gold thickness

options (30 $\mu^{\prime\prime},\!50\mu^{\prime\prime})$  over  $50\mu^{\prime\prime}$  minimum nickel on

contact mating area.

Shield: Stainless steel

### **Electrical**

**Contact Resistance:** 20 mΩ maximum

**Insulation Resistance:** 500 M $\Omega$  minimum at 500V DC for 2 mins.

max.

**Current Rating:** 1.5 Amps **Voltage Rating:** 125 Volts AC

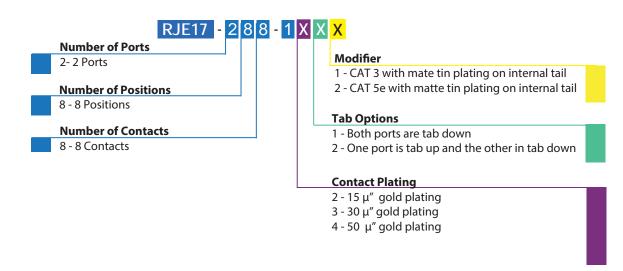
**DWV:** 1000 VAC, 60 Hz. 1 minute

**Mating Connector Insertion Force:** 5 lbs. maximum **Mating Connector Pull Retention Force:** 20 lbs. minimum

**Durability:** 750 mating & unmating cycles

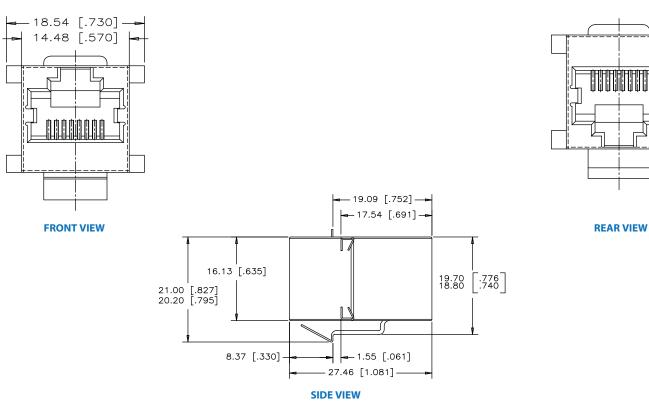
**Operating Temperature:**  $-40^{\circ}\text{C to} + 85^{\circ}\text{C}$ 

# **Ordering Information**



# **Single Port**

### RJE17-288-1X21



# Notes

# LED OPTIONS

# **LED Designation**

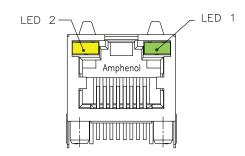
**Ex. RJHSE - 538X\*** 

\*LED Designation Code

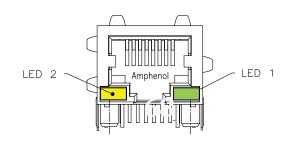
LED	LED 2		LED 1	
Code	Left		Right	
0	Blocked		Blocked	
1	Yellow		Green	
2	Blocked		Green	
3	Yellow		Blocked	
4	Green		Yellow	
5	Green		Green	
6	Yellow		Yellow	
7	Red		Green	
8	Green		Red	
9	Green		Blocked	
Α	Green	Yellow	Green	Yellow
В	Red	Green	Red	Green
С	Red	Green	Green	Yellow
D	Green		Green	Yellow
E	Yellow		Green	Yellow
F	Green	Yellow	Yellow	
G	Green	Orange	Green	Orange
Н	Green	Yellow	Green	
J	Red	Green	Yellow	
K	Yellow		Green	Orange
L	Green	Yellow	R	ed
M	Red		Yellow	
N	Green	Red	Green	Yellow
Р	Green		Red	Green
R	Green	Orange	Green	
Т	Red		Red	
V	Red	Green	Green	

Note: A black X in the part number refers to the LED designation code for all drawings in this catalogue.

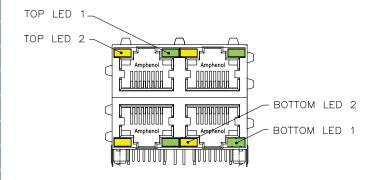
### **For Right Angle Connectors:**



### **For Vertical Connectors:**



### **For Stacked Connectors:**



Other LED options are available. If you do not see what you're looking for, please email sales@amphenolcanada.com to request the complete the LED ordering options.

# **NOTES**

# Amphenol® Now you're connected!

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Email: sales@amphenolcanada.com
All specifications are subject to change without notice.