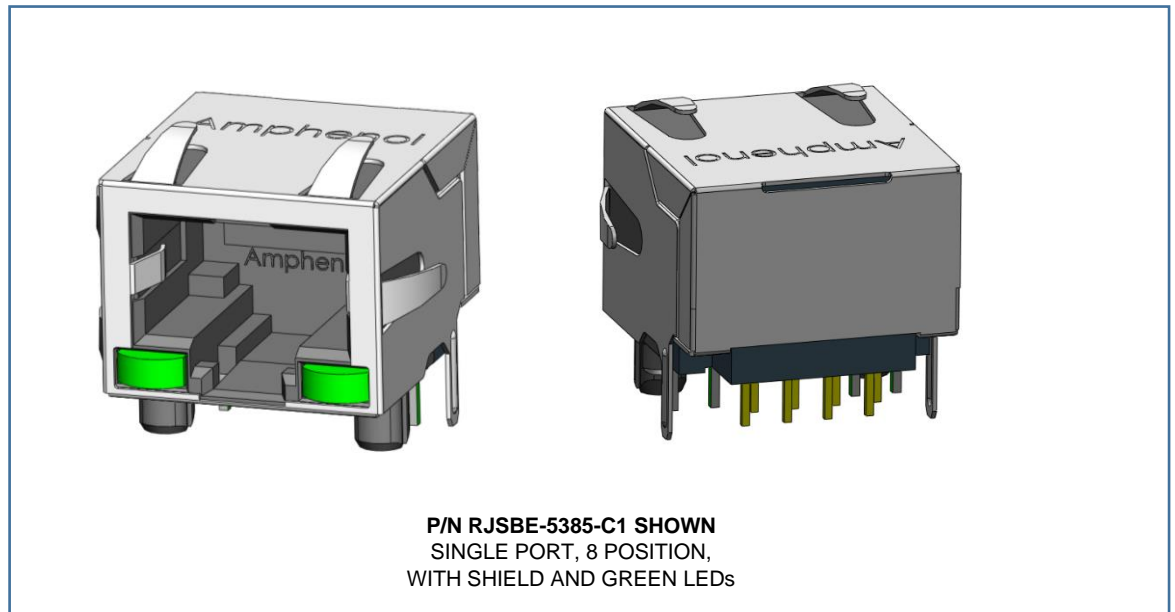


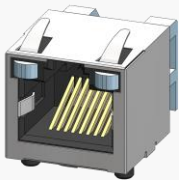
### About Amphenol Commercial Products

Amphenol's commercial connector products are used in a variety of end user applications including networking, telecom, server & computer, storage & HDD, consumer electronics and entertainment, professional audio & Industrial & Military/Aerospace.



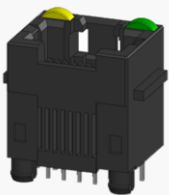
### Related Products

#### RJSSE SERIES



P/N RJSSE-5381 SHOWN  
SINGLE PORT, 8 POSITION,  
WITH SHIELD AND LIGHT PIPE

#### RJHSE SERIES



P/N RJHSE-3081 SHOWN  
SINGLE PORT, 8 POSITION  
WITHOUT SHIELD, WITH LEDs

## OVERVIEW

This product specification defines the general use and performance parameters for Amphenol's RJSBE series of modular jacks.

Availability: 1x1, 1x2 and 1x4 ports available with a wide variety of LED and shielding options.

## USAGE

The RJSBE series of modular jacks supports Ethernet Protocols. Shielding available with and without a Ferrite filter for increased EMI performance and LEDs for Link Activity and Network Speed verification.

## APPLICATIONS

Intended for use in applications such as:

### Data

- Storage
- Servers
- Routers
- Switches
- Hubs

### Consumer Goods

- Security Systems
- Set Top Boxes
- Video Game Systems
- PCs, Laptops
- Copiers, Printers

### Industrial and Instrumentation

- Uninterruptible Power Supply (UPS)
- ATMs
- Vending Machines
- POS Terminals
- Industrial IoT Platforms

### Networking & Telecom

- 5G Wireless
- Telephones
- Modems
- Fax Machines

### Medical

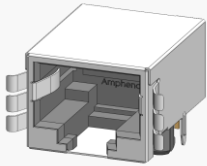
- Analysis Equipment
- Mass Spectrometers

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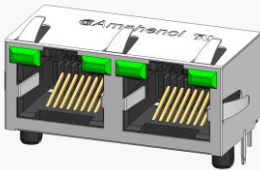
## Related Products

### RJULE SERIES



P/N RJULE-4X182-01 SHOWN  
SINGLE PORT REGULAR  
MOUNT, STANDARD SHIELD  
WITH SMT

### RJHSE SERIES



P/N RJHSE-5385-02 SHOWN  
TWO PORT REGULAR  
MOUNT, WITH SHIELD AND  
GREEN LEDs

## ELECTRICAL CHARACTERISTICS

<b>Contact Resistance</b>	20 mΩ maximum
<b>Insulation Resistance</b>	500 MΩ minimum at 500V DC for 2 minutes max
<b>Current Rating</b>	1.5 Amps per contact
<b>Voltage Rating</b>	125 Volts AC
<b>DWV (Dielectric Withstanding Voltage)</b>	Contact to Contact: 1,000 VAC, 60 Hz, 1 min Contact to LED: 1,500 VAC, 60 Hz, 1 min Contact to Shield: 1,500 VAC, 60 Hz, 1 min LED to Shield: 1,500 VAC, 60 Hz, 1 min
<b>LED Forward DC Current</b>	20mA typical
<b>LED Forward Voltage</b>	1.8 to 2.4 Volts @ 20mA (for single colors) 2.6 to 3.4 Volts @ 20mA (for Bi-colors)
<b>LED Reverse Voltage</b>	5.0 Volts maximum (for single colors) 1.3 Volts maximum (for bi-colors)
<b>LED Light Intensity</b>	6 to 60 mcd @ 20mA (for single colors) 3 to 15 mcd @ 20mA (for Bi-colors)
<b>LED Wavelength</b>	Yellow: 587 ± 7nm measured @ 20mA Green: 565 ± 6nm measured @ 20mA Red: 625 ± 5nm measured @ 20mA

Supports PoE Type1, Type2, Type 3, and Type 4 per IEEE PoE standards  
IP20 rated per IEC 60529  
TIA 1096 Compliant

## MECHANICAL CHARACTERISTICS

<b>Mating Connector Insertion Force</b>	5.0 lbs maximum
<b>Mating Connector Pull Retention Force</b>	20.0 lbs minimum
<b>Durability</b>	750 mating and unmating cycles for 50μ" gold plating
<b>Recommended Soldering Temperature</b>	Wave soldering peaked at 260°C for 10 seconds maximum
<b>Operating Temperature</b>	-55°C to +85°C

UL File #: E135615  
Contact Sales for reflow-compatible versions.

## MATERIAL REQUIREMENTS

RJSBE connectors are RoHS compliant.  
Unless otherwise specified, the materials for each component shall be:

<b>Insulator</b>	Engineering thermoplastic, flammability rating UL 94V-0
<b>Contacts</b>	-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
<b>Shield</b>	Copper alloy with tin finish tails
<b>LED</b>	Pure Tin plating on LED tails

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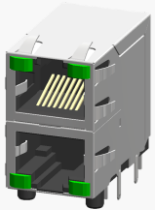
## Related Products

### FRJAE SERIES



P/N FRJAE-418 SHOWN SINGLE PORT, 8 POSITION, WITH FERRITE FILTER AND SHIELD

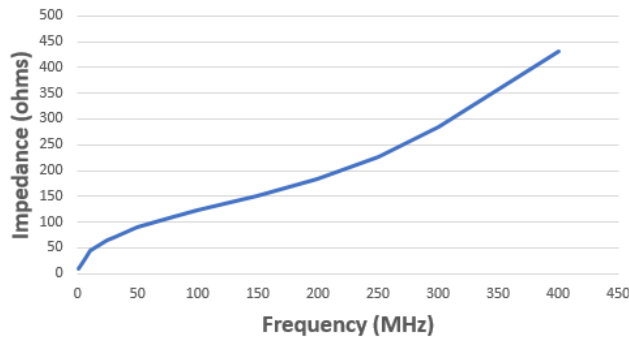
### RJSAE SERIES



P/N RJSAE-5835-02 SHOWN STACKED 2X1, 8 POSITION, WITH SHIELD AND GREEN LEDs

## IMPEDANCE CHARACTERISTIC OF FERRITE BLOCK

### Impedance Characteristics



## AVAILABLE DOCUMENTS

Below is a list of some of our common standard sales drawings.

Contact our website, sales, or an authorized Amphenol representation for additional drawings.

<b>RJSBE-X080-C1</b>	Single port, without shield, without LEDs
<b>RJSBE-X080-C2</b>	Two ports, without shield, without LEDs
<b>RJSBE-X080-C4</b>	Four ports, without shield, without LEDs
<b>RJSBE-X380-C1</b>	Single port, shielded with EMI tabs, without LEDs
<b>RJSBE-X380-C2</b>	Two ports, shielded with EMI tabs, without LEDs
<b>RJSBE-X380-C4</b>	Four ports, shielded with EMI tabs, without LEDs
<b>RJSBE-X280-C1</b>	Single port, shielded with EMI tabs, with ferrite filter, without LEDs
<b>RJSBE-X280-C2</b>	Two ports, shielded with EMI tabs, with ferrite filter, without LEDs
<b>RJSBE-X280-C4</b>	Four ports, shielded with EMI tabs, with ferrite filter, without LEDs
<b>RJSBE-XF80-C2</b>	Two ports, shielded with no EMI tabs, without LEDs
<b>RJSBE-XF80-C4</b>	Four ports, shielded with no EMI tabs, without LEDs
<b>RJSBE-X080-C2X</b>	Two ports, without shield, with LEDs
<b>RJSBE-X38X-C1X</b>	Single port, shielded with EMI tabs, with LEDs
<b>RJSBE-X38X-C2X</b>	Two ports, shielded with EMI tabs, with LEDs
<b>RJSBE-X38X-C4X</b>	Four ports, shielded with EMI tabs, with LEDs
<b>RJSBE-XF8X-C1X</b>	Single port, shielded with no EMI tabs, with LEDs
<b>RJSBE-XF8X-C2X</b>	Two ports, shielded with no EMI tabs, with LEDs
<b>RJSBE-XF8X-C4X</b>	Four ports, shielded with no EMI tabs, with LEDs
<b>RJSBE-7060-C1</b>	Single port, 6 position 6 contacts, without shield, without LEDs
<b>RJSBE-706X-C2X</b>	Two ports, 6 position 6 contacts, without shield, with LEDs
<b>RJSBE-736X-C1X</b>	Single port, 6 position 6 contacts, shielded with EMI tabs, with LEDs
<b>RJSBE-736X-C2X</b>	Two ports, 6 position 6 contacts, shielded with EMI tabs, with LEDs
<b>RJSBE-736X-C1X</b>	Single port, 6 position 6 contacts, shielded with no EMI tabs, with LEDs

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