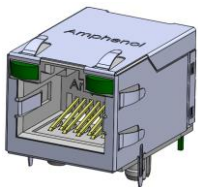


### About Amphenol Commercial Products

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.

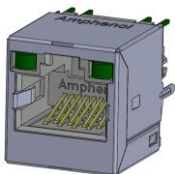
### Related Products

#### RJE58

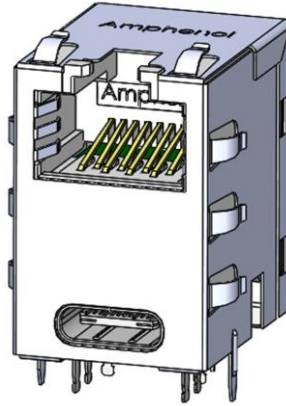


P/N RJE58-188-5XX1 SHOWN SINGLE PORT, 8 POSITIONS, WITH SHIELD AND LEDs CAT5e

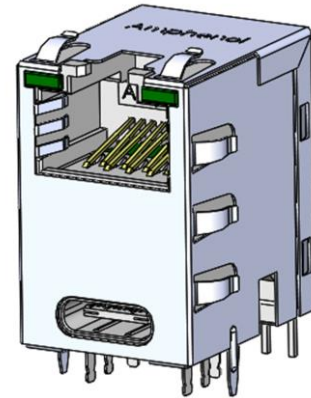
#### RJE45



P/N RJE45-188-2XX1 SHOWN SINGLE PORT, 8 POSITION, WITH SHIELD AND LEDs CAT6



P/N RJE4E-188-1X01 SHOWN, RJ45 over USB TYPE C, 8 POSITIONS, 8 CONTACTS, Shielded with EMI springs, without LEDs



P/N RJE4E-188-1XX1 SHOWN, RJ45 over USB TYPE C, 8 POSITIONS, 8 CONTACTS, Shielded with EMI springs, with LEDs

### OVERVIEW

This product specification defines the general use and performance parameters for Amphenol's RJE4E series of modular jacks.

Availability: RJ45 over USB Type C connectors available with a wide variety of LED and USB Type C and shielding options.

### USAGE

The RJ45 of RJE4E series meet CAT5e performance per EIA-568-C.2. It supports Gigabit Ethernet Protocols. Shielding is available for increasing EMI performance and LEDs for Link Activity and Network Speed verification.

The USB Type C of RJE4E series are unique as these receptacles will engage with the plugs regardless of how the plug is inserted. They also provide a multi function, single cable solution for USB, Power and Audio Video.

### 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

## 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.

### Networking & Telecom

- 5G Wireless
- Telephones
- Modems
- Fax Machines
- Any Device that uses a USB currently

### Medical

- Analysis Equipment
- Mass Spectrometers

## ■ CHARACTERISTICS FOR RJ45 PART

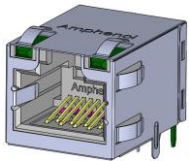
### ELECTRICAL CHARACTERISTICS

<b>Contact Resistance</b>	20 mΩ maximum
<b>Insulation Resistance</b>	500 MΩ minimum at 500V DC for 2 minutes maximum
<b>Current Rating</b>	1.25 Amps per contact
<b>Voltage Rating</b>	125 Volts AC
<b>DWV</b>	1000 VAC, 60 HZ. 1 min
<b>LED Forward DC Current</b>	20 mA typical
<b>LED Forward Voltage</b>	1.9 Volts max. @ 2mA (for single colours) 2.6 Volts max. @ 20mA (for Bi-colours)
<b>LED Reverse Voltage</b>	5 Volts minimum
<b>LED Light Intensity</b>	0.4 to 1.5 mcd @ 2mA (for single colours) 0.5 mcd minimum @ 2mA (for Bi-colours) Yellow: 587 ± 7nm measured @20mA Green: 565 ± 6nm measured @20mA Red: 625 ± 5nm measured @ 20mA
<b>LED Wavelength</b>	

Supports PoE, PoE+, and PoE++ per IEEE PoE standards

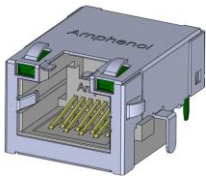
## Related Products

### RJE1A



P/N RJE1A-188-5XX1 SHOWN SINGLE PORT, 8POSITIONS, WITH SHIELD AND LEDs CAT5e

### RJE71



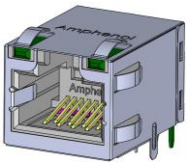
P/N RJE71-188-1XXX SHOWN SINGLE PORT, 8 POSITION, WITH SHIELD AND LEDs CAT6

## 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.

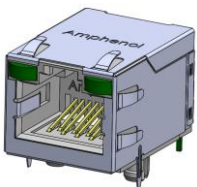
## Related Products

### RJE1B



P/N RJE1B-188-5XX1 SHOWN SINGLE PORT, 8 POSITIONS, WITH SHIELD AND LEDs CAT6

### RJE60



P/N RJE60-188-5XX1 SHOWN SINGLE PORT 8 POSITIONS, WITH SHIELD AND LEDs CAT6A

## CATEGORY 5e CHARACTERISTICS

Frequency MHz	Near-end Crosstalk dB Min.	Return Loss dB Min.	Attenuation dB Max.
1.0	65	30	0.1
4.0	65	30	0.1
8.0	64.9	30	0.1
10.0	63	30	0.1
16.0	58.9	30	0.2
20.0	57	30	0.2
25.0	55	30	0.2
31.25	53.1	30	0.2
62.5	47.1	24.1	0.3
100.0	43	20	0.4

## 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 5 seconds maximum
<b>Operating Temperature</b>	-40°C to +85°C

Connectors without LEDs are suitable for IR Reflow. Consult sales for LED versions suitable for Reflow.

## MATERIAL REQUIREMENTS

RJE4W connectors are RoHS compliant, Unless otherwise specified, the materials for each component shall be:

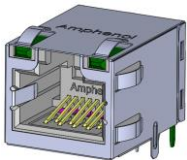
<b>Insulator</b>	High temperature thermoplastic, complies with UL 94V-0
<b>Contacts</b>	-Phosphor Bronze hard temper with gold thickness options (6µ", 15µ" 30µ", 50µ") over 50µ" minimum Nickel on contact mating area -100µ" minimum matte Tin plating on solder tails
<b>Shield</b>	Stainless Steel with tin-dipped tails
<b>LED</b>	Tin plating on LED tails

## 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.

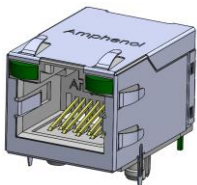
## Related Products

### RJE1B



P/N RJE1B-188-5XX1 SHOWN SINGLE PORT, 8 POSITIONS, WITH SHIELD AND LEDs CAT6

### RJE60



P/N RJE60-188-5XX1 SHOWN SINGLE PORT 8 POSITIONS, WITH SHIELD AND LEDs CAT6A

## CHARACTERISTICS FOR USB TYPE C PART

### ELECTRICAL CHARACTERISTICS

<b>Contact Resistance</b>	40 mΩ maximum
<b>Insulation Resistance</b>	100 MΩ minimum
<b>Current Rating</b>	Up to 5A when following USB Type C spec
<b>Differential Impedance</b>	90 Ω +/- 15 Ω
<b>DWV</b>	100 VAC

### MECHANICAL CHARACTERISTICS

<b>Thermal Shock</b>	5 cycles @ -40° to +125° C
<b>Physical Shock</b>	30g's ½ Sine for 11ms
<b>Humidity</b>	EAI-364-31 Condition C, method III
<b>Vibration</b>	EIA-364-28 Condition V, letter A

### MATERIAL REQUIREMENTS

RJE4W connectors are RoHS compliant, Unless otherwise specified, the materials for each component shall be:

<b>Insulator</b>	High temperature thermoplastic, complies with UL 94V-0
<b>Contacts</b>	- Copper Alloy with gold thickness options (6μ", 15μ" 30μ") over 50μ" minimum Nickel on contact mating area -100μ" minimum matte Tin plating on solder tails
<b>Shield</b>	Stainless Steel with nickel plating.

### AVAILABLE DOCUMENTS

Below is a list of the most popular standard sales drawings:  
*Contact our website, sales, or an authorized Amphenol representation for additional drawings.*

<b>RJE4E-188-1X01</b>	RJ45 over USB TYPE C, shielded with EMI springs, without LEDs
<b>RJE4E-188-1XX1</b>	RJ45 over USB TYPE C, shielded with EMI springs, with LEDs

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Modular Connectors](#) / [Ethernet Connectors](#) category:*

*Click to view products by [Amphenol](#) manufacturer:*

Other Similar products are found below :

[RJE231881317T](#) [MP1010RX-1000](#) [MP44RX-1000](#) [GAX-3-66](#) [GAX-8-62](#) [93606-0253](#) [GD-A-44](#) [GDCX-PA-66-50](#) [GDCX-PN-64](#) [GDCX-PN-66](#) [GDCX-PN-66-50](#) [GDLX-A-66](#) [GDLX-A-88](#) [GDLX-N-66](#) [GDLX-S-88K](#) [GDTX-S-88-50](#) [GDX-PA-1010](#) [GLX-A-44](#) [GLX-N-1010M-BLK](#) [GLX-N-44M](#) [GLX-S-88M-BLK](#) [GMX-N-1010](#) [GMX-S-1010](#) [GMX-S-66](#) [GMX-SMT2-N-1010](#) [GMX-SMT2-N-64-50](#) [GMX-SMT2-S6-88](#) [GMX-SMT4-N-88](#) [GPX-2-64](#) [GRT1-BT1-5](#) [GSGX-N-2-88](#) [GSX-NS2-88-3.05](#) [GSX-NS2-88-3.05-50](#) [GSX-NS-88-3.05-30](#) [GSX-NS-88-3.05-50](#) [GSX-NS-88-3.68](#) [1-1775629-2](#) [GWLX-S-88-GR](#) [GWLX-S9-88-YG](#) [1300500326](#) [1300500227](#) [1300530003](#) [1300570002](#) [1324640-4](#) [RJ11FTVC2G](#) [RJ11FTVC2N](#) [RJFTVX2SA1G](#) [132764-001](#) [1400000](#) [1413176](#)