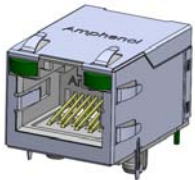


About Amphenol Commercial Products

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.

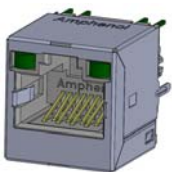
Related Products

RJE58

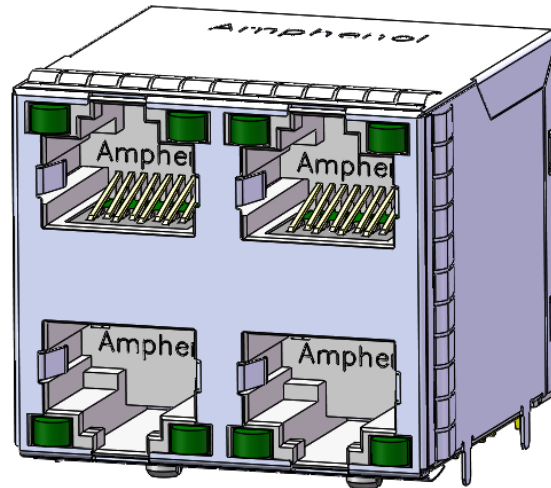


P/N RJE58-188-5XX1 SHOWN SINGLE PORT, 8 POSITIONS, WITH SHIELD AND LEDs CAT5e

RJE45



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



P/N RJE4W-488-XXXX SHOWN, 4 PORTS 8 POSITIONS, 8 CONTACTS, Through hole VERSION, WITH SHIELD AND LEDs

OVERVIEW

This product specification defines the general use and performance parameters for Amphenol's RJE4W series of modular jacks.

Availability: 2X2 port connectors available with a wide variety of LED and shielding options.

USAGE

The RJE4W 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

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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ELECTRICAL CHARACTERISTICS

Contact Resistance	20 mΩ maximum
Insulation Resistance	500 MΩ minimum at 500V DC for 2 minutes maximum
Current Rating	1.25 Amps per contact
Voltage Rating	125 Volts AC
DWV	Contact to contact, 1000 VAC, 60 HZ. 1 min Contact to LED, 1500 VAC, 60 HZ. 1 min
LED Forward DC Current	20 mA typical
LED Forward Voltage	1.9 Volts max. @ 2mA (for single colours) 2.6 Volts max. @ 20mA (for Bi-colours)
LED Reverse Voltage	5 Volts minimum
LED Light Intensity	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
LED Wavelength	

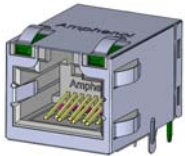
Supports PoE, PoE+, and PoE++ per IEEE PoE standards
IP20 rated per IEC 60529

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

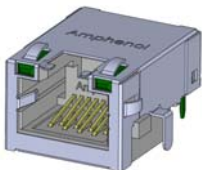
Related Products

RJE1A



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

RJE71



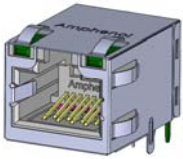
P/N RJE71-188-1XXX SHOWN SINGLE PORT, 8 POSITION, WITH SHIELD AND LEDs CAT6

About Amphenol Commercial Products

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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

MECHANICAL CHARACTERISTICS

Mating Connector Insertion force	5.0 lbs maximum
Mating Connector Pull Retention Force	20.0 lbs minimum
Durability	750 mating and unmating cycles for 50μ" gold plating
Recommended Soldering Temperature	Wave soldering peaked at 260°C for 5 seconds maximum
Operating Temperature	-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:

Insulator	High temperature thermoplastic, complies with UL 94V-0
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 solder tails
Shield	Stainless Steel with tin-dipped tails
LED	Tin plating on LED tails

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.

RJE4W-488-6X01	Two x Two port, with shield without EMI tabs, without LEDs
RJE4W-488-6XX1	Two x Two port, with shield without EMI tabs, with LEDs
RJE4W-488-7X01	Two x Two port, shielded with EMI, without LEDs
RJE4W-488-7XX1	Two x Two port, shielded with EMI springs, with LEDs