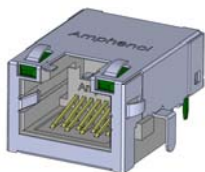


About Amphenol Commercial Products

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

RJE72

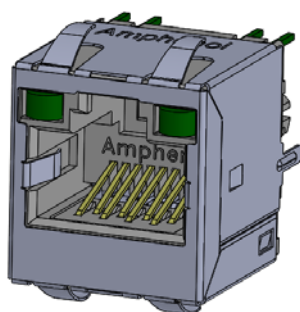


P/N RJE72-188-1XXX SHOWN SINGLE PORT, 8 POSITION, WITH SHIELD AND LEDs CAT5e

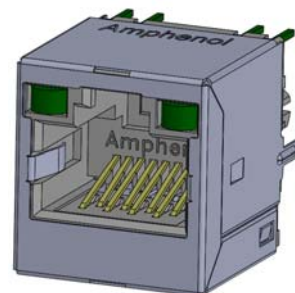
RJE45



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



P/N RJE4A-188-1XX1 SHOWN SINGLE PORT, 8 POSITIONS, WITH LEDs, SHIELDED WITH PCB TABS AND SIDE TABS



P/N RJE4A-188-2XX1 SHOWN SINGLE PORT, 8 POSITIONS, WITH LEDs, SHIELDED WITH PCB TABS AND WITHOUT SIDE TABS

OVERVIEW

This product specification defines the general use and performance parameters for Amphenol's RJE4A series of modular jacks.

Availability: Single port connector available with a wide variety of LED and shielding options.

USAGE

The RJE4A series of modular jacks meet CAT6A 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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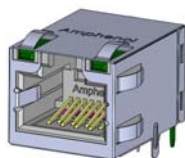
Related Products

RJES8



P/N RJES8-188-5XX1 SHOWN SINGLE PORT, 8 POSITION, WITH SHIELD AND LEDs CAT5e

RJE1C



P/N RJE1C-188-5XX1 SHOWN SINGLE PORT, 8 POSITIONS, WITH SHIELD AND LEDs CAT6A

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	1000 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 min. @2 mA (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 6A CHARACTERISTICS

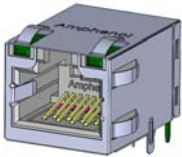
Frequency MHz	Near-end Crosstalk dB Min.	Return Loss dB Min.	Attenuation dB Max.
1.0	75.0	30.0	0.1
4.0	75.0	30.0	0.1
8.0	75.0	30.0	0.1
10.0	74.0	30.0	0.1
16.0	69.9	30.0	0.1
20.0	68.0	30.0	0.1
25.0	66.0	30.0	0.1
31.25	64.1	30.0	0.11
62.5	58.1	30	0.16
100.0	54.0	28.0	0.20
200.0	48.0	22.0	0.28
250.0	46.0	20.0	0.32
300.0	42.9	18.5	0.35
400.0	37.9	16.0	0.40
500.0	42.0	14.0	0.45

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Related Products

RJE1A



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

RJE60



P/N RJE60-188-5XX1 SHOWN SINGLE PORT, 8 POSITION, 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 maximum or lead free reflow soldering up to 260°C for 10 seconds for 1 cycle with an LED defect rate of no more than 1000ppm (Multiple exposures are not recommended)
Operating Temperature	-40°C to +85°C

UL File #: E135615

MATERIAL REQUIREMENTS

RJE4A 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.

RJE4A-188-0X01	Single port, non-shielded, without LEDs
RJE4A-188-0XX2	Single port, non-shielded, with reflow LEDs
RJE4A-188-1XX1	Single port, with shield, with reflow LEDs
RJE4A-188-2X01-T	Single port, with shield, without side tabs, without LEDs
RJE4A-188-2XX2-T	Single port, shielded without side tabs, with reflow LEDs