

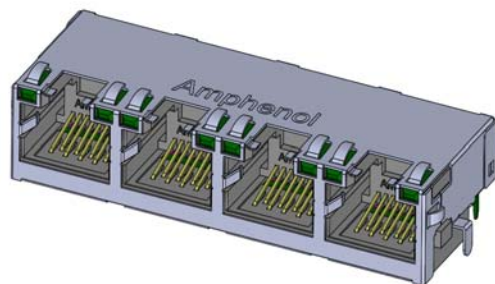
RJE72

Product Specification S6051C Rev 1.6

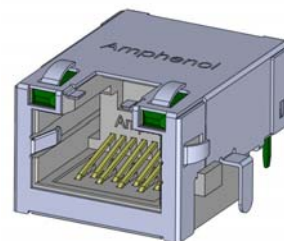
Amphenol

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.



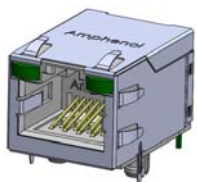
P/N RJE72-488-1XXX SHOWN
4 PORT, 8 POSITION,
WITH SHIELD AND LEDs



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

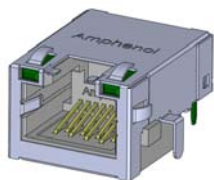
Related Products

RJE58



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

RJE7B



P/N RJE7B-188-1XXX SHOWN
SINGLE PORT, 8 POSITION,
WITH SHIELD AND LEDs, CAT 6A

OVERVIEW

This product specification defines the general use and performance parameters for Amphenol's RJE72 series of modular jacks.

Availability: Single and 1X4 port connectors available with a wide variety of LED and shielding options

USAGE

The RJE72 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

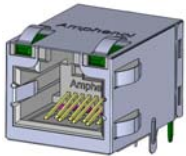
- Analysis Equipment
- Mass Spectrometers

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Related Products

RJE1A



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

RJE60



P/N RJE60-188-5XX1 SHOWN SINGLE PORT, 8 POSITION, 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 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

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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

UL File #: E135615

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

MATERIAL REQUIREMENTS

RJE72 connectors are RoHS compliant.

Unless otherwise specified, 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.

RJE72-188-1X0X	Single port, ultra-low profile, shielded with top and side tabs, without LEDs
RJE72-188-1XXX	Single port, ultra-low profile, shielded with top, and side tabs, with LEDs
RJE72-488-1X0X	Four ports, ultra-low profile, shielded with top and side tabs, without LEDs
RJE72-488-1XXX	Four ports, ultra-low profile, shielded with top and side tabs, with LEDs

Related Products

RJE45



P/N RJE45-188-1XX1 SHOWN
SINGLE PORT, 8 POSITION,
WITH SHIELD AND LEDs CAT6

RJE60



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

Amphenol Canada Corp.
605 Milner Avenue
Toronto, Ontario, Canada M1B 5X6

www.amphenolcanada.com (www.amphenol-icc.com)
(416) 291-4401
sales@amphenolcanada.com

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