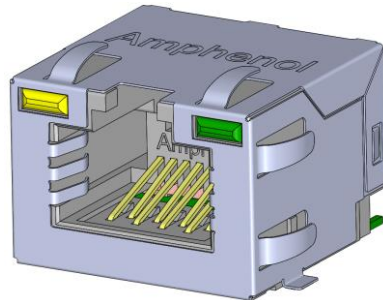
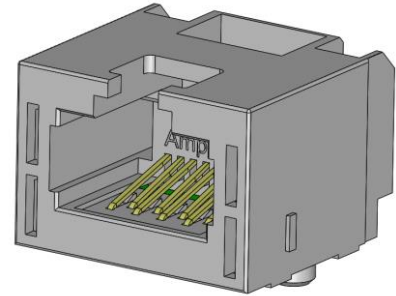


About Amphenol Commercial Products

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.



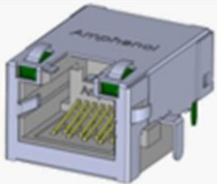
P/N RJE3A-188-1441 SHOWN
SINGLE PORT, 8 POSITION, SURFACE MOUNT, TAB-UP, WITHOUT BOARD PEGS, WITH SHIELD AND GREEN LEDs



P/N RJE3A-188-0402 SHOWN
SINGLE PORT, 8 POSITION, SURFACE MOUNT, TAB-UP, WITH BOARD PEGS, NO SHIELD, NO LEDs

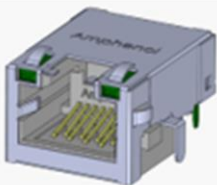
Related Products

RJE72 SERIES



P/N RJE72-188-1451 SHOWN
CAT5e, SINGLE PORT, 8P8C, WITH SHIELD AND GREEN LEDs

RJE71 SERIES



P/N RJE71-188-1451 SHOWN
CAT6, SINGLE PORT, 8P8C, WITH SHIELD AND GREEN LEDs

OVERVIEW

This product specification defines the general use and performance parameters for Amphenol's RJE3A series of modular jacks.

Availability: Single port connectors available with a wide variety of LEDs and shielding options. With or without housing board pegs.

USAGE

The RJE3A series of modular jacks is a SMT connector that meets CAT5e performance per EIA-568-C.2. It supports Gigabit Ethernet Protocols as well as 2.5GBASE-T per IEEE 802.3bz. Shielding available for improved 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
- Modems
- Fax Machines

Medical

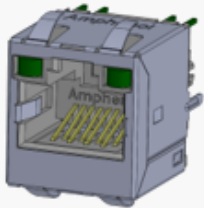
- Analysis Equipment
- Mass Spectrometers

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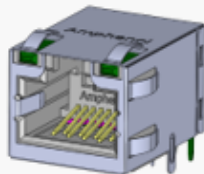
Related Products

RJE4A SERIES



P/N RJE4A-188-1451 SHOWN
CAT6A, SINGLE PORT, 8P8C,
WITH SHIELD AND GREEN
LEDs

RJE1A SERIES



P/N RJE1A-188-5451 SHOWN
CAT5e, SINGLE PORT, 8P8C,
WITH SHIELD AND GREEN
LEDs

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: 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: 1,000 VAC, 60 Hz, 1 min
LED Forward DC Current	20 mA typical
LED Forward Voltage	2.4 Volts max. @ 2mA (for single colors) 2.4 Volts max. @ 20mA (for Bi-colors)
LED Reverse Voltage	5.0 Volts maximum (for single colors) 1.3 Volts maximum (for bi-colors)
LED Light Intensity	4 to 30 mcd @ 20mA (for single colors) 8 to 20 mcd @ 20mA (for Bi-colors)
LED Wavelength	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

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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Related Products

RJE58 SERIES



P/N RJE58-188-5451 SHOWN CAT5e, SINGLE PORT, 8P8C, WITH SHIELD AND GREEN LEDs

RJE59 SERIES



P/N RJE59-188-5451 SHOWN CAT6, SINGLE PORT, 8P8C, WITH SHIELD AND GREEN LEDs

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	Reflow soldering peaked at 260°C for 10 seconds max.
Operating Temperature	-55°C to +85°C

MATERIAL REQUIREMENTS

RJE3A 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 matte-Tin plating
LED	Tin plating on LED tails
Moisture Sensitivity	MSL - 2a

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.

RJE3A-188-0X02	Single port, with board pegs, without shield, without LEDs
RJE3A-188-0XX2	Single port, with board pegs, without shield, with LEDs
RJE3A-188-1X02	Single port, with board pegs, shield with top and side EMI tabs, without LEDs
RJE3A-188-1XX2	Single port, with board pegs, shield with top and side EMI tabs, with LEDs
RJE3A-188-6X02	Single port, with board pegs, shield with no EMI tabs, without LEDs
RJE3A-188-6XX2	Single port, with board pegs, shield with no EMI tabs, with LEDs
RJE3A-188-1X01	Single port, without board pegs, shield with top and side EMI tabs, without LEDs
RJE3A-188-1XX1	Single port, without board pegs, shield with top and side EMI tabs, with LEDs
RJE3A-188-6X01	Single port, without board pegs, shield with no EMI tabs, without LEDs
RJE3A-188-6XX1	Single port, without board pegs, shield with no EMI tabs, with LEDs