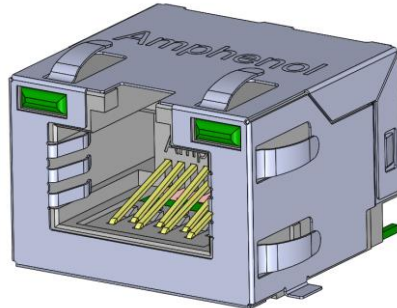
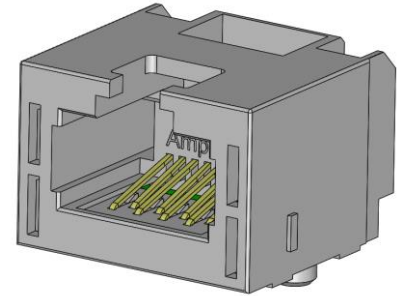


About Amphenol Commercial Products

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.



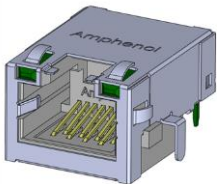
P/N RJE3B-188-1452 SHOWN
SINGLE PORT, 8 POSITION, SURFACE MOUNT, TAB-UP, WITHOUT BOARD PEGS, WITH SHIELD AND GREEN LEDs



P/N RJE3B-188-0402 SHOWN
SINGLE PORT, 8 POSITION, SURFACE MOUNT, TAB-UP, WITH BOARD PEGS, NO SHIELD, NO LEDs

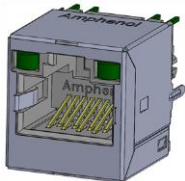
Related Products

RJE7B SERIES



P/N RJE7B-188-1XXX SHOWN
SINGLE PORT, 8 POSITION, WITH SHIELD AND LEDs
CAT6A

RJE45 SERIES



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

OVERVIEW

This product specification defines the general use and performance parameters for Amphenol's RJE3B series of modular jacks.

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

USAGE

The RJE3B series of modular jacks meet CAT6 performance per EIA-568-C.2. It supports Gigabit Ethernet Protocols and 10Gig links in applications up to 50m. 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
- Modems
- Fax Machines

Medical

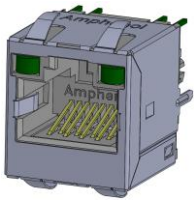
- Analysis Equipment
- Mass Spectrometers

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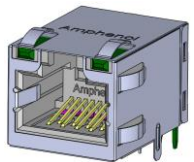
Related Products

RJE4A SERIES



P/N RJE4A-188-1XX1 SHOWN
SINGLE PORT, 8 POSITION,
WITH SHIELD AND LEDs CAT6A

RJE1A SERIES



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

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. @ 20mA (for single colors) |
| | 2.4 Volts max. @ 20mA (for Bi-colors) |
| LED Reverse Voltage | 5 Volts maximum |
| 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 6 CHARACTERISTICS

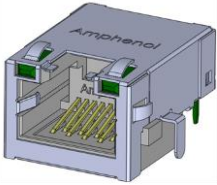
| Frequency MHz | Near-end Crosstalk dB Min. | Return Loss dB Min. | Attenuation dB Max. |
|------------------|-------------------------------|------------------------|------------------------|
| 1.0 | 75.0 | 30.0 | 0.1 |
| 4.0 | 75.0 | 30.0 | 0.1 |
| 8.0 | 75.0 | 30.0 | 0.1 |
| 10.0 | 74.0 | 30.0 | 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 | 28.1 | 0.16 |
| 100.0 | 54.0 | 24.0 | 0.20 |
| 200.0 | 48.0 | 18.0 | 0.28 |
| 250.0 | 46.0 | 16.0 | 0.32 |

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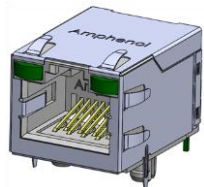
Related Products

RJE71 SERIES



P/N RJE71-188-1XX1 SHOWN SINGLE PORT, 8 POSITION, WITH SHIELD AND LEDs, CAT6

RJE60 SERIES



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

MATERIAL REQUIREMENTS

RJE3B 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 |

AVAILABLE DOCUMENTS

Below is a list of common standard sales drawings.

Contact our website, sales, or an authorized Amphenol representation for additional drawings.

| | |
|-----------------------|--|
| RJE3B-188-0X02 | Single port, with board pegs, without shield, without LEDs |
| RJE3B-188-0XX2 | Single port, with board pegs, without shield, with LEDs |
| RJE3B-188-1X02 | Single port, with board pegs, shield with top and side EMI tabs, without LEDs |
| RJE3B-188-1XX2 | Single port, with board pegs, shield with top and side EMI tabs, with LEDs |
| RJE3B-188-6X02 | Single port, with board pegs, shield with no EMI tabs, without LEDs |
| RJE3B-188-6XX2 | Single port, with board pegs, shield with no EMI tabs, with LEDs |
| RJE3B-188-1X01 | Single port, without board pegs, shield with top and side EMI tabs, without LEDs |
| RJE3B-188-1XX1 | Single port, without board pegs, shield with top and side EMI tabs, with LEDs |
| RJE3B-188-6X01 | Single port, without board pegs, shield with no EMI tabs, without LEDs |
| RJE3B-188-6XX1 | Single port, without board pegs, shield with no EMI tabs, with LEDs |