

Modular Jack – RJE60 Series

CAT6A, RIGHT ANGLE, SINGLE PORT CONNECTOR WITH AVAILABLE LEDs

The RJE60 single port series of Modular Jacks meet CAT6A performance per EIA-568-C.2 standards. It supports 10G Ethernet data rate and transmission frequencies up to 500MHz. The available shielding enhances EMI performance. LEDs support link activity and network speed verification. These connectors are made with high temperature composites and are coupled with high temperature resistant LEDs. These are highly durable with 750 mating & unmating cycles and supports an operating temperature of -55°C to + 85°C, making them suitable for a wide range of environmental conditions.

- Supports up to 10G Ethernet Protocols
- Meets CAT6A performance on its own without outside assistance
- Same size and footprint as RJE58 and RJE59 series
- Multiple shield and LED options available
- RoHS compliant

FEATURES

- Variety of LED options
- Standard size
- Accommodates industry standard plugs
- Reflow compatible
- Available with and without shielding
- Meets CAT6A performance per EIA-568-C.2.



TARGET MARKETS



BENEFITS

- Customers can opt for the LED color of their choice
- Optimizes the PCB space
- Can mate successfully with all types of standard plugs
- Single process for soldering to PCB, saving time and money
- Accommodates a wide range of EMI needs
- Supports up to 10G Ethernet

TECHNICAL INFORMATION

MATERIAL

- Insulator: High temperature engineering thermoplastic; Complies with UL94V-0, Black
- Contacts: Phosphor bronze hard temper with gold thickness options (6u", 15u", 30u", 50u") over 50u" min. nickel on contact mating area. 100u" min. matte tin plating on soldering tail
- Shield: Copper alloy, nickel plated with tin dipped tail or stainless steel with tin dipped tail
- LED: Pure tin plating on LED tails

ELECTRICAL PERFORMANCE

- Contact Resistance: 20 mΩ max.
- Insulation Resistance: 500 MΩ min. at 500V DC for 2 minutes max.
- Current Rating: 1.5 Amps
- Voltage Rating: 125V AC
- Dielectric Withstanding Voltage: 1000V AC, 60 Hz., 1 minute
- LED Forward DC Current: 20mA typical
- LED Forward Voltage: 1.9 Volts max. @ 2 mA (for single colors), 2.6 Volts max. @ 20 mA (for bicolors)
- LED Reverse Voltage: 5 Volts min.
- LED Light Intensity: 0.4 to 1.5 mcd @ 2 mA (for single colors), 0.5 mcd min. @ 2 mA (for bicolors)
- LED Wave Length: Yellow – 587 +/- 7 nm measured @ 20 mA, Green – 565 +/- 7 nm measured @ 20 mA, Red – 625 +/- 5 nm measured @ 20 mA

MECHANICAL PERFORMANCE

- Insertion Force: 5 lbs max.
- Pull Retention Force: 20 lbs min.
- Durability: 750 mating and unmating cycles

SPECIFICATION

- Amphenol Product Specification: S6100C

APPROVALS AND CERTIFICATIONS

- RoHS
- REACH
- UL

ENVIRONMENTAL

- Operating Temperature: -55°C to +85°C
- Recommended Soldering Temperature: Wave soldering peaked at 260°C for 5 seconds max.

PACKAGING

- Available in tray and tape and reel packaging

TARGET MARKETS/APPLICATIONS



5G Wireless
Telephones
Modems
Fax Machines
Copiers/printers



Security Systems
Set Top Boxes
Video Game Systems
PCs
Laptops



Storage
Servers
Routers
Switches
Hubs



Uninterruptible Power Supply (UPS)
ATMs
Vending Machines
POS Terminals
Industrial IoT Platforms



Analysis equipment
Mass Spectrometers

PART NUMBERS

| Product | Description | Part Numbers |
|---------------------------|--|----------------|
| RJE60 Modular Jack Series | Shield with top and side EMI tabs, no LEDs | RJE60-188-5401 |
| RJE60 Modular Jack Series | Shield with top and side EMI tabs, with LEDs | RJE60-188-5441 |
| RJE60 Modular Jack Series | Shield with top and side EMI tabs, with LEDs | RJE60-188-5411 |
| RJE60 Modular Jack Series | Shield with no EMI tabs, no LEDs | RJE60-188-6401 |
| RJE60 Modular Jack Series | Shield with no EMI tabs, with LEDs | RJE60-188-6441 |
| RJE60 Modular Jack Series | Shield with no EMI tabs, with LEDs | RJE60-188-6411 |
| RJE60 Modular Jack Series | Shield with no EMI tabs, with LEDs | RJE60-188-64A1 |
| RJE60 Modular Jack Series | Shield with top and side EMI tabs, with LEDs | RJE60-188-5411 |
| RJE60 Modular Jack Series | Shield with top EMI tabs, no LEDs | RJE60-188-3401 |
| RJE60 Modular Jack Series | Shield with top EMI tabs, with LEDs | RJE60-188-3411 |
| RJE60 Modular Jack Series | Shield with top EMI tabs, with LEDs | RJE60-188-3441 |
| RJE60 Modular Jack Series | Shield with top EMI tabs, with LEDs | RJE60-188-34A1 |

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