

## RJE59 Modular Jack Series

### CAT6, RIGHT ANGLE, SINGLE PORT CONNECTOR WITH AVAILABLE LEDS

The RJE59 series of Modular Jacks meet CAT6 performance per EIA-568-C.2. It meets the 5G and 10G standards and supports a transmission rates up to 250MHz. These Modular Jacks come in right angle and standard profile with LEDs for link activity and network speed verification. Made with high temperature composites and coupled with our high temperature resistant LEDs, these connectors are well-suited for the reflow soldering process.

Shielding is available for increased EMI performance. The connectors also feature inverted latch orientation for easier mating with industry standard plugs.

- Supports 5G and 10G Ethernet Protocols
- Meets CAT6 performance on its own without outside assistance
- Same size and footprint as RJE58 and RJE60 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 CAT6 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 cost
- Accommodates a wide range of EMI needs
- Supports 5G and 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: S6102C

### 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
RJE59 Modular Jack Series	Shield with top and side EMI tabs, no LEDs	RJE59-188-5401
RJE59 Modular Jack Series	Shield with top and side EMI tabs, with LEDs	RJE59-188-5441
RJE59 Modular Jack Series	Shield with top and side EMI tabs, with LEDs	RJE59-188-5411
RJE59 Modular Jack Series	Shield with no EMI tabs, no LEDs	RJE59-188-6401
RJE59 Modular Jack Series	Shield with no EMI tabs, with LEDs	RJE59-188-6441
RJE59 Modular Jack Series	Shield with no EMI tabs, with LEDs	RJE59-188-6411
RJE59 Modular Jack Series	Shield with no EMI tabs, with LEDs	RJE59-188-64A1
RJE59 Modular Jack Series	Shield with top and side EMI tabs, with LEDs	RJE59-188-5411
RJE59 Modular Jack Series	Shield with top EMI tabs, no LEDs	RJE59-188-3401
RJE59 Modular Jack Series	Shield with top EMI tabs, with LEDs	RJE59-188-3411
RJE59 Modular Jack Series	Shield with top EMI tabs, with LEDs	RJE59-188-3441
RJE59 Modular Jack Series	Shield with top EMI tabs, with LEDs	RJE59-188-34A1

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