

## Modular Jack – RJE1R Series

### 2X1 STACKED CONNECTOR WITH AVAILABLE PORT OPTIONS: CAT5, CAT5e, OR CAT6

The RJE1R series of 2x1 stacked modular jack connectors have two 8P8C ports with options to choose from three different performances for each port: CAT5 equivalent, CAT5e, and CAT6. These multi-port multi-performance solutions thus extend their application capability to suit a wide range of Communications, Storage, Consumer, Home, Industrial, and Medical markets. Geared for 750 mating cycles, these connectors promise enhanced durability, and are also geared to withstand harsh environments with a wide temperature range from  $-55^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ .

- Flexibility to choose the port's performance
- CAT5, CAT5e, and CAT6 available in one connector
- Same footprint regardless of the performance
- Standard shield options available
- Integrated LEDs available in a wide range of colors



#### TARGET MARKETS



#### FEATURES

- Variety of LED options
- Pick and choose performance per port
- Accommodates industry standard plugs
- Available with and without shielding
- Meets CAT5e or CAT6 performance per EIA-568-C.2.

#### BENEFITS

- Customers can opt for the LED color of their choice
- One design supports CAT5 equivalent, CAT5e, and CAT6 options
- Can mate successfully with all types of standard plugs
- Accommodates a wide range of EMI needs
- Can support 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: S6135C

### 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
RJE1R Modular Jack Series	Shield, both ports Cat5e, no LEDs	RJE1R-288-2254-01
RJE1R Modular Jack Series	Shield, both ports Cat5e, with LEDs	RJE1R-288-2254-11
RJE1R Modular Jack Series	Shield, both ports Cat5e, with LEDs	RJE1R-288-2254-41
RJE1R Modular Jack Series	Shield, both ports Cat6, no LEDs	RJE1R-288-3354-01
RJE1R Modular Jack Series	Shield, both ports Cat6, with LEDs	RJE1R-288-3354-11
RJE1R Modular Jack Series	Shield, both ports Cat6, with LEDs	RJE1R-288-3354-41
RJE1R Modular Jack Series	Shield, top port Cat6, bottom Cat5e, no LEDs	RJE1R-288-2354-01
RJE1R Modular Jack Series	Shield, top port Cat6, bottom Cat5e, with LEDs	RJE1R-288-2354-11
RJE1R Modular Jack Series	Shield, top port Cat5e, bottom Cat6, no LEDs	RJE1R-288-3254-01
RJE1R Modular Jack Series	Shield, top port Cat5e, bottom Cat6, with LEDs	RJE1R-288-3254-11