Modular Jack – RJE1R Series

2X1 and 2x4 STACKED CONNECTOR WITH AVAILABLE PORT OPTIONS: 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 can also withstand harsh environments with a wide temperature range from -55°C to +85°C.

- Flexibility in choosing 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 (6µin, 15µin, 30µin, 50µin) over 50µin min. Nickel on contact mating area. 100µin 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: 20mΩ max.

- Insulation Resistance: 500MΩ min. at 500VDC for 2 minutes max.

- Current Rating: 1.5Amps

- Voltage Rating: 125VAC

- Dielectric Withstanding Voltage (DWV): 1000VAC, 60Hz., 1 minute

- LED Forward DC Current: 20mA typical

- LED Forward Voltage: 1.9V max. @ 2mA (for single colors), 2.6V max. @ 20mA (for bicolors)

- LED Reverse Voltage: 5V min.

- LED Light Intensity: 0.4 to 1.5mcd @ 2mA (for single colors), 0.5mcd min. @ 2mA (for bicolors)

- LED Wave Length: Yellow – 587 ± 7nm measured @ 20mA, Green – 565 ± 7nm measured @ 20mA, Red – 625 ± 5nm measured @ 20mA

MECHANICAL PERFORMANCE

- Insertion Force: 5lbs max.

- Pull Retention Force: 20lbs min.

- Durability: 750 mating and unmating cycles

ENVIRONMENTAL

- Operating Temperature Range: –55°C to +85°C

- Recommended Soldering Temperature: Wave soldering peaked at 260°C for 5 seconds max.

SPECIFICATION

- Amphenol Product Specification: S6135C

APPROVALS & CERTIFICATION

- RoHS

- REACH

- UL

PACKAGING

- Tray

- Tape and Reel

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

Description	Description	Part Numbers
RJE1R Modular Jack Series	Shield, Both ports Cat5e, No LEDs – 2x1	RJE1R–288–2254–01
RJE1R Modular Jack Series	Shield, Both ports Cat5e, With LEDs – 2x1	RJE1R–288–2254–11
RJE1R Modular Jack Series	Shield, Both ports Cat5e, With LEDs – 2x1	RJE1R–288–2254–41
RJE1R Modular Jack Series	Shield, Both ports Cat6, No LEDs – 2x1	RJE1R–288–3354–01
RJE1R Modular Jack Series	Shield, Both ports Cat6, With LEDs – 2x1	RJE1R–288–3354–11
RJE1R Modular Jack Series	Shield, Both ports Cat6, With LEDs – 2x1	RJE1R–288–3354–41
RJE1R Modular Jack Series	Shield, Top port Cat6, Bottom Cat5e, No LEDs – 2x1	RJE1R–288–2354–01
RJE1R Modular Jack Series	Shield, Top port Cat6, Bottom Cat5e, With LEDs– 2x1	RJE1R–288–2354–11
RJE1R Modular Jack Series	Shield, Top port Cat5e, Bottom Cat6, No LEDs – 2x1	RJE1R–288–3254–01
RJE1R Modular Jack Series	Shield, Top port Cat5e, Bottom Cat6, With LEDs – 2x1	RJE1R–288–3254–11
RJE1R Modular Jack Series	Shield, Both ports Cat5e, No LEDs – 2x4	RJE1R–888–2254–01
RJE1R Modular Jack Series	Shield, Both ports Cat5e, With LEDs – 2x4	RJE1R–888–2254–11
RJE1R Modular Jack Series	Shield, Both ports Cat5e, With LEDs – 2x4	RJE1R–888–2254–41
RJE1R Modular Jack Series	Shield, Both ports Cat6, No LEDs – 2x4	RJE1R–888–3354–01
RJE1R Modular Jack Series	Shield, Both ports Cat6, With LEDs – 2x4	RJE1R–888–3354–11
RJE1R Modular Jack Series	Shield, Both ports Cat6, With LEDs – 2x4	RJE1R–888–3354–41
RJE1R Modular Jack Series	Shield, Top port Cat6, Bottom Cat5e, No LEDs – 2x4	RJE1R–888–2354–01
RJE1R Modular Jack Series	Shield, Top port Cat6, Bottom Cat5e, With LEDs – 2x4	RJE1R–888–2354–11
RJE1R Modular Jack Series	Shield, Top port Cat5e, Bottom Cat6, No LEDs – 2x4	RJE1R–888–3254–01
RJE1R Modular Jack Series	Shield, Top port Cat5e, Bottom Cat6, With LEDs – 2x4	RJE1R–888–3254–11

Find part number details using the search box on www.amphenol–cs.com

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