

Modular Jack – RJE44 Series

CAT5E, VERTICAL, LOW PROFILE, SINGLE PORT CONNECTOR WITH LEDs

The RJE44 single port series of Modular Jacks meet CAT5E performance per EIA-568-C.2 standards. It supports 2.5G Ethernet data rate and transmission frequencies up to 100MHz. The available shielding enhances EMI performance and LEDs support link activity and network speed verification. These connectors are made with high temperature composites and are coupled with high temperature resistant LEDs. Highly durable with 750 mating and unmating cycles, they support an operating temperature of -55°C to + 85°C, making them suitable for a wide range of environmental conditions.

- Supports 1G and 2.5G Ethernet Protocols
- Meets Cat5E performance on its own without outside assistance
- Same size and footprint as the RJE45 (CAT6) and RJE4A (CAT6A) series
- Multiple shield and LED options available
- RoHS compliant



TARGET MARKETS



FEATURES

- Variety of LED options
- Standard size
- Accommodates industry standard plugs
- IR Re-flow compatible
- Various shield options available
- Meets CAT5E as per EIA-568-C.2

BENEFITS

- Customers can opt for the LED color of their choice
- Optimizes the PCB
- 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 2.5G 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: 1.5A
- Voltage Rating: 125VAC
- 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 bi-colors)
- LED Reverse Voltage: 5V min.
- LED Light Intensity: 0.4 to 1.5mcd @ 2mA (for single colors), 0.5mcd min. @ 2mA (for bi-colors)
- LED Wave Length: Yellow – 587 ± 7nm measured @ 20mA, Green – 565 ± 7 nm measured @ 20mA, Red – 625 ± 5 nm measured @ 20mA

APPROVALS & CERTIFICATION

- RoHS
- REACH
- UL

MECHANICAL PERFORMANCE

- Insertion Force: 5lbs max.
- Pull Retention Force: 20lbs min.
- Durability: 750 mating and unmating cycles
- Operating Temperature Range: -55°C to +85°C
- Recommended Soldering Temperature: Wave soldering peaked at 260°C for 5 seconds max.

PACKAGING

- Tray and Tape
- 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	Part Numbers	Part Numbers
RJE44 Modular Jack Series	No shield and no LEDs	RJE44-188-0401
RJE44 Modular Jack Series	No shield with LEDs	RJE44-188-0411
RJE44 Modular Jack Series	No shield with LEDs	RJE44-188-0441
RJE44 Modular Jack Series	Shield without EMI tabs, no LEDs	RJE44-188-2401
RJE44 Modular Jack Series	Shield without EMI tabs, with LEDs	RJE44-188-2411
RJE44 Modular Jack Series	Shield with top and bottom EMI tabs, with LEDs	RJE44-188-1411
RJE44 Modular Jack Series	Shield with top and bottom EMI tabs, no LEDs	RJE44-188-1401

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