

Narrow Profile High Speed RJ – RJE3A/3B–N Series

CAT5E AND CAT6 HIGH SPEED, NARROW PROFILE RJ45 CONNECTORS

The RJE3A/3B–N series of 1x1 and 1x2 modular jack connectors offer a very narrow profile to reduce the board space. Options are available only without LED. 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°C to $+85^{\circ}\text{C}$.



FEATURES

- Ratings: CAT5E/CAT6
- 1x1 and 1x2 configurations
- Shielded and Unshielded
- Without LED
- With and Without EMI Tabs

BENEFITS

- Customers can customize the selection as per application
- With the modular structure, customer can achieve maximum flexibility with design
- Customer can select the ports based on application and space
- Provides flexibility based on application
- Enhanced flexibility to customer

TECHNICAL INFORMATION

MATERIAL

- Insulator: Engineering thermoplastic; Complies with UL94V-0, Black
- Contacts: Phosphor bronze hard temper with Gold thickness options (6u", 15u", 30u", 50u") over
- 50µin 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: 20mΩ max.
- Insulation Resistance: 500 M: min at 500VDC for 2 mins max
- Voltage Rating: 125VAC
- Dielectric Withstanding Voltage: 1000V AC, 60 Hz., 1 minute

MECHANICAL PERFORMANCE

- Insertion Force: 20N max.
- Pull Retention Force: 50N min.
- Durability: 750 mating and unmating cycles

SPECIFICATION

- Amphenol Product Specification: S6146C Rev1

APPROVALS AND CERTIFICATIONS

- RoHS
- REACH
- UL

ENVIRONMENTAL

- Operating Temperature Range: -20°C to +60°C
- Recommended Storage Temperature: -20°C to +60°C

PACKAGING

- Tray for individual connector
- Multiple trays in box packing

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
Modular Jack – 8P8C, RA, Cat5E, SMT, Single Port,without shield, With Housing Pegs, No LEDs	RJE3A1880102N
Modular Jack – 8P8C, RA, Cat5E, SMT, Single Port,without shield, With Housing Pegs, No LEDs	RJE3A1880202N
Modular Jack – 8P8C, RA, Cat5E, SMT, Single Port,without shield, With Housing Pegs, No LEDs	RJE3A1880302N
Modular Jack – 8P8C, RA, Cat5E, SMT, Single Port,without shield, With Housing Pegs, No LEDs	RJE3A1880402N
Modular Jack – 8P8C, RA, Cat5E, SMT, Single Port, Shield With Top and Side EMI Tabs, With Housing Pegs, No LEDs	RJE3A1881102N
Modular Jack – 8P8C, RA, Cat5E, SMT, Single Port, Shield With Top and Side EMI Tabs, With Housing Pegs, No LEDs	RJE3A1881202N
Modular Jack – 8P8C, RA, Cat5E, SMT, Single Port, Shield With Top and Side EMI Tabs, With Housing Pegs, No LEDs	RJE3A1881302N
Modular Jack – 8P8C, RA, Cat5E, SMT, Single Port, Shield With Top and Side EMI Tabs, With Housing Pegs, No LEDs	RJE3A1881402N
Modular Jack – 8P8C, RA, Cat5E, SMT, Single Port, Shield Without Top and Side EMI Tabs, With Housing Pegs, No LEDs	RJE3A1886102N
Modular Jack – 8P8C, RA, Cat5E, SMT, Single Port, Shield Without Top and Side EMI Tabs, With Housing Pegs, No LEDs	RJE3A1886202N
Modular Jack – 8P8C, RA, Cat5E, SMT, Single Port, Shield Without Top and Side EMI Tabs, With Housing Pegs, No LEDs	RJE3A1886302N
Modular Jack – 8P8C, RA, Cat5E, SMT, Single Port, Shield Without Top and Side EMI Tabs, With Housing Pegs, No LEDs	RJE3A1886402N
Modular Jack – 8P8C, RA, CAT6, SMT, Single Port,without shield, With Housing Pegs, No LEDs	RJE3B1880102N
Modular Jack – 8P8C, RA, CAT6, SMT, Single Port,without shield, With Housing Pegs, No LEDs	RJE3B1880202N
Modular Jack – 8P8C, RA, CAT6, SMT, Single Port,without shield, With Housing Pegs, No LEDs	RJE3B1880302N
Modular Jack – 8P8C, RA, CAT6, SMT, Single Port,without shield, With Housing Pegs, No LEDs	RJE3B1880402N
MODULAR JACK – 8P8C, RA, CAT6, SMT, SINGLE PORT, SHIELD WITH TOP AND SIDE EMI TABS, WITH HOUSING PEGS, NO LEDs	RJE3B1881102N
MODULAR JACK – 8P8C, RA, CAT6, SMT, SINGLE PORT, SHIELD WITH TOP AND SIDE EMI TABS, WITH HOUSING PEGS, NO LEDs	RJE3B1881202N
MODULAR JACK – 8P8C, RA, CAT6, SMT, SINGLE PORT, SHIELD WITH TOP AND SIDE EMI TABS, WITH HOUSING PEGS, NO LEDs	RJE3B1881302N
MODULAR JACK – 8P8C, RA, CAT6, SMT, SINGLE PORT, SHIELD WITH TOP AND SIDE EMI TABS, WITH HOUSING PEGS, NO LEDs	RJE3B1881402N
MODULAR JACK – 8P8C, RA, CAT6, SMT, SINGLE PORT, SHIELD WITHOUT TOP AND SIDE EMI TABS, WITH HOUSING PEGS, NO LEDs	RJE3B1886102N
MODULAR JACK – 8P8C, RA, CAT6, SMT, SINGLE PORT, SHIELD WITHOUT TOP AND SIDE EMI TABS, WITH HOUSING PEGS, NO LEDs	RJE3B1886202N
MODULAR JACK – 8P8C, RA, CAT6, SMT, SINGLE PORT, SHIELD WITHOUT TOP AND SIDE EMI TABS, WITH HOUSING PEGS, NO LEDs	RJE3B1886302N
MODULAR JACK – 8P8C, RA, CAT6, SMT, SINGLE PORT, SHIELD WITHOUT TOP AND SIDE EMI TABS, WITH HOUSING PEGS, NO LEDs	RJE3B1886402N
MODULAR JACK – 2P 8P8C, RA, CAT5E, SMT, SINGLE PORT,WITHOUT SHIELD, WITH HOUSING PEGS, NO LEDs	RJE3A2880102N
MODULAR JACK – 2P 8P8C, RA, CAT5E, SMT, SINGLE PORT,WITHOUT SHIELD, WITH HOUSING PEGS, NO LEDs	RJE3A2880202N

▶ Narrow Profile High Speed RJ – RJE3A-N/ RJE3B-N

MODULAR JACK – 2P 8P8C, RA, CAT5E, SMT, SINGLE PORT,WITHOUT SHIELD, WITH HOUSING PEGS, NO LEDS	RJE3A2880302N
MODULAR JACK – 2P 8P8C, RA, CAT5E, SMT, SINGLE PORT,WITHOUT SHIELD, WITH HOUSING PEGS, NO LEDS	RJE3A2880402N
MODULAR JACK – 2P 8P8C, RA, CAT5E, SMT, SINGLE PORT, SHIELD WITH TOP AND SIDE EMI TABS, WITH HOUSING PEGS, NO LEDS	RJE3A2881102N
MODULAR JACK – 2P 8P8C, RA, CAT5E, SMT, SINGLE PORT, SHIELD WITH TOP AND SIDE EMI TABS, WITH HOUSING PEGS, NO LEDS	RJE3A2881202N
MODULAR JACK – 2P 8P8C, RA, CAT5E, SMT, SINGLE PORT, SHIELD WITH TOP AND SIDE EMI TABS, WITH HOUSING PEGS, NO LEDS	RJE3A2881302N
MODULAR JACK – 2P 8P8C, RA, CAT5E, SMT, SINGLE PORT, SHIELD WITH TOP AND SIDE EMI TABS, WITH HOUSING PEGS, NO LEDS	RJE3A2881402N
MODULAR JACK – 2P 8P8C, RA, CAT5E, SMT, SINGLE PORT, SHIELD WITHOUT TOP AND SIDE EMI TABS, WITH HOUSING PEGS, NO LEDS	RJE3A2886102N
MODULAR JACK – 2P 8P8C, RA, CAT5E, SMT, SINGLE PORT, SHIELD WITHOUT TOP AND SIDE EMI TABS, WITH HOUSING PEGS, NO LEDS	RJE3A2886202N
MODULAR JACK – 2P 8P8C, RA, CAT5E, SMT, SINGLE PORT, SHIELD WITHOUT TOP AND SIDE EMI TABS, WITH HOUSING PEGS, NO LEDS	RJE3A2886302N
MODULAR JACK – 2P 8P8C, RA, CAT5E, SMT, SINGLE PORT, SHIELD WITHOUT TOP AND SIDE EMI TABS, WITH HOUSING PEGS, NO LEDS	RJE3A2886402N
MODULAR JACK – 2P 8P8C, RA, CAT6, SMT, SINGLE PORT,WITHOUT SHIELD, WITH HOUSING PEGS, NO LEDS	RJE3B2880102N
MODULAR JACK – 2P 8P8C, RA, CAT6, SMT, SINGLE PORT,WITHOUT SHIELD, WITH HOUSING PEGS, NO LEDS	RJE3B2880202N
MODULAR JACK – 2P 8P8C, RA, CAT6, SMT, SINGLE PORT,WITHOUT SHIELD, WITH HOUSING PEGS, NO LEDS	RJE3B2880302N
MODULAR JACK – 2P 8P8C, RA, CAT6, SMT, SINGLE PORT,WITHOUT SHIELD, WITH HOUSING PEGS, NO LEDS	RJE3B2880402N
MODULAR JACK – 2P 8P8C, RA, CAT6, SMT, SINGLE PORT, SHIELD WITH TOP AND SIDE EMI TABS, WITH HOUSING PEGS, NO LEDS	RJE3B2881102N
MODULAR JACK – 2P 8P8C, RA, CAT6, SMT, SINGLE PORT, SHIELD WITH TOP AND SIDE EMI TABS, WITH HOUSING PEGS, NO LEDS	RJE3B2881202N
MODULAR JACK – 2P 8P8C, RA, CAT6, SMT, SINGLE PORT, SHIELD WITH TOP AND SIDE EMI TABS, WITH HOUSING PEGS, NO LEDS	RJE3B2881302N
MODULAR JACK – 2P 8P8C, RA, CAT6, SMT, SINGLE PORT, SHIELD WITH TOP AND SIDE EMI TABS, WITH HOUSING PEGS, NO LEDS	RJE3B2881402N
MODULAR JACK – 2P 8P8C, RA, CAT6, SMT, SINGLE PORT, SHIELD WITHOUT TOP AND SIDE EMI TABS, WITH HOUSING PEGS, NO LEDS	RJE3B2886102N
MODULAR JACK – 2P 8P8C, RA, CAT6, SMT, SINGLE PORT, SHIELD WITHOUT TOP AND SIDE EMI TABS, WITH HOUSING PEGS, NO LEDS	RJE3B2886202N
MODULAR JACK – 2P 8P8C, RA, CAT6, SMT, SINGLE PORT, SHIELD WITHOUT TOP AND SIDE EMI TABS, WITH HOUSING PEGS, NO LEDS	RJE3B2886302N
MODULAR JACK – 2P 8P8C, RA, CAT6, SMT, SINGLE PORT, SHIELD WITHOUT TOP AND SIDE EMI TABS, WITH HOUSING PEGS, NO LEDS	RJE3B2886402N

CMORJE3A1023E4