

# Combo-Stacked Connectors – RJE7G Series

## CAT 3/5, COMBINATIONAL CONNECTORS

The RJE7G series of 5 in 1 Combo-stacked modular jack connectors have five ports with different combinations between RJ50 and RJ45 as primary ports and USB A, USB C, and RJ-Mag as secondary ports. These multi-port multi-performance solutions a wide range of Communications, Storage, Consumer, Home, Industrial, and Medical markets. This port is ideal for Device Management where customers are looking for minimum-footprint electronics for Device Management. The RJ Mag serves as a Programming port; 2xRJ45 serves as a Data Transfer port and USB A + USB C serves as a great POE + Storage port.

Geared for 750 mating cycles, these connectors promise enhanced durability and are geared to withstand harsh environments with a wide temperature range from -55°C to +85°C.



### TARGET MARKETS



### FEATURES

- Ratings: CAT 3/5
- 2 Nos RJ45 / RJ50 + 1 x RJ Mag + 1 USB A + 1 USB C
- Shielded
- With wide range of LED selection on RJ Mag
- Available also with RJ over 2 USB A and RJ over 2 USB C

### 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
- Reduced footprint on PCB by almost 70%
- Reduction in Board-to-Board connectors in event of multiple PCB

## TECHNICAL INFORMATION

### MATERIAL

- Insulator: 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 the 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

### MECHANICAL PERFORMANCE

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

### ELECTRICAL PERFORMANCE

- Contact Resistance: 20mΩ max.
- Insulation Resistance: 500MΩ min. at 500VDC for 2 minutes max.
- Voltage Rating: 125VAC
- Dielectric Withstanding Voltage: 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: 0.4mcd 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

### PACKAGING

- Tray for individual connector
- Multiple trays in box packing

### SPECIFICATION

- Amphenol Product Specification: S6146C Rev1

### ENVIRONMENTAL

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

### APPROVALS AND CERTIFICATIONS

- RoHS
- REACH
- UL

### 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
2x RJ45 8P8C, plating gold 30µin + 1xRJMAG with No LED + USB A + USB C	RJE7G588130112
2x RJ45 8P8C, plating gold 30µin + 1xRJMAG with LED(left=yellow, right=green) + USB A + USB C	RJE7G588131112
2x RJ45 8P8C, plating gold 30µin + 1xRJMAG with LED(left=green, right=yellow) + USB A + USB C	RJE7G588134112
2x RJ45 8P8C, plating gold 30µin + 1xRJMAG with LED(with two bic green/yellow) + USB A + USB C	RJE7G58813A112
2x RJ45 8P8C, plating gold 50µin + 1xRJMAG No LED+ USB A + USB C	RJE7G588140112
2x RJ45 8P8C, plating gold 50µin+ 1xRJMAG with LED(left=yellow, right=green) + USB A + USB C	RJE7G588141112
2x RJ45 8P8C, plating gold 50µin + 1xRJMAG with LED(left=green, right=yellow) + USB A + USB C	RJE7G588144112
2x RJ45 8P8C, plating gold 50µin + 1xRJMAG with LED(with two bic green/yellow) + USB A + USB C	RJE7G58814A112
2x RJ45 10P10C, plating gold 30µin + 1xRJMAG No LED+ USB A + USB C	RJE7G5AA130111
2x RJ45 10P10C, plating gold 30µin + 1xRJMAG with LED(left=yellow, right=green) + USB A + USB C	RJE7G5AA131111
2x RJ45 10P10C, plating gold 30µin + 1xRJMAG with LED(left=green, right=yellow) + USB A + USB C	RJE7G5AA134111
2x RJ45 10P10C, plating gold 30µin + 1xRJMAG with LED(with two bic green/yellow) + USB A + USB C	RJE7G5AA13A111
2x RJ45 10P10C, plating gold 50µin + 1xRJMAG No LED+ USB A + USB C	RJE7G5AA140111
2x RJ45 10P10C, plating gold 50µin + 1xRJMAG with LED(left=yellow, right=green) + USB A + USB C	RJE7G5AA141111
2x RJ45 10P10C, plating gold 50µin + 1xRJMAG with LED(left=green, right=yellow) + USB A + USB C	RJE7G5AA144111
2x RJ45 10P10C, plating gold 50µin + 1xRJMAG with LED(with two bic green/yellow) + USB A + USB C	RJE7G5AA14A111