

Combo-Stacked Connectors – RJE36 Series

CAT3/5, Combinational Connectors

The RJE36 series of 2x1 Combo-stacked modular jack connectors have two 8P8C ports with options to choose from different combinations between RJ as a primary port and USB A, USB C, HDI as a secondary port. 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 $+85^{\circ}\text{C}$.



TARGET MARKETS



FEATURES

- Ratings: CAT3/5
- RJ over USB A, RJ over USB C, RJ over HDMI
- Shielded and Unshielded
- With wide range of LED selection
- 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
- 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 (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.
- 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 @ 20 mA, Green – 565 ± 7nm measured @ 20 mA, Red – 625 ± 5nm measured @ 20mA

MECHANICAL PERFORMANCE

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

ENVIRONMENTAL

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

SPECIFICATION

- Amphenol Product Specification: S6146C Rev1

APPROVALS & CERTIFICATION

- RoHS
- REACH
- UL

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
Stacked RJ45 over HDMI , without LED, with 6 micro inch Contact Gold Plating	RJE36188210H
Stacked RJ45 over HDMI , without LED, with 15 micro inch Contact Gold Plating	RJE36188220H
Stacked RJ45 over HDMI , without LED, with 30 micro inch Contact Gold Plating	RJE36188230H
Stacked RJ45 over HDMI , without LED, with 50 micro inch Contact Gold Plating	RJE36188240H
Stacked RJ45 over HDMI , with LED G/Y, with 6 micro inch Contact Gold Plating	RJE36188214H
Stacked RJ45 over HDMI , with LED G/Y, with 15 micro inch Contact Gold Plating	RJE36188224H
Stacked RJ45 over HDMI , with LED G/Y, with 30 micro inch Contact Gold Plating	RJE36188234H
Stacked RJ45 over HDMI , with LED G/Y, with 50 micro inch Contact Gold Plating	RJE36188244H
Stacked RJ45 over 2 Nos USB Type C , without LED, with 6 micro inch Contact Gold Plating	RJE36188310CH
Stacked RJ45 over 2 Nos USB Type C , without LED, with 15 micro inch Contact Gold Plating	RJE36188320CH
Stacked RJ45 over 2 Nos USB Type C , without LED, with 30 micro inch Contact Gold Plating	RJE36188330CH
Stacked RJ45 over 2 Nos USB Type C , without LED, with 50 micro inch Contact Gold Plating	RJE36188340CH
Stacked RJ45 over 2 Nos USB Type C , with LED G/Y, with 6 micro inch Contact Gold Plating	RJE36188314CH
Stacked RJ45 over 2 Nos USB Type C , with LED G/Y, with 15 micro inch Contact Gold Plating	RJE36188324CH
Stacked RJ45 over 2 Nos USB Type C , with LED G/Y, with 30 micro inch Contact Gold Plating	RJE36188334CH
Stacked RJ45 over 2 Nos USB Type C , with LED G/Y, with 50 micro inch Contact Gold Plating	RJE36188344CH
Stacked, 8P8C, RJ over USB Type A, 2.0, Shield With No EMI Tabs, No LEDs	RJE361882103
Stacked, 8P8C, RJ over USB Type A, 2.0, Shield With No EMI Tabs, No LEDs	RJE361882203
Stacked, 8P8C, RJ over USB Type A, 2.0, Shield With No EMI Tabs, No LEDs	RJE361882303
Stacked, 8P8C, RJ over USB Type A, 2.0, Shield With No EMI Tabs, No LEDs	RJE361882403
Stacked, RJ over USB Type A, 2.0, With LEDs	RJE361882413
Stacked, RJ Over Two USB Type A 3.0, No LEDs	RJE361882005
Stacked, RJ Over Two USB Type A 3.0, No LEDs	RJE361882105
Stacked, RJ Over Two USB Type A 3.0, No LEDs	RJE361882205
Stacked, RJ Over Two USB Type A 3.0, No LEDs	RJE361882305
Stacked, RJ Over Two USB Type A 3.0, No LEDs	RJE361882405
Stacked, RJ Over Two USB Type A 3.0, With LEDs	RJE361882415
Stacked, RJ Over One USB Type A 3.0, No LEDs	RJE361882407
Stacked, RJ Over One USB Type A 3.0, With LEDs	RJE361882417
Stacked, RJ Over Two USB Type A 3.0, No LEDs	RJE361883005
Stacked, RJ over Two USB Type A, 2.0, No LEDs	RJE361883101
Stacked, RJ Over Two USB Type A 3.0, No LEDs	RJE361883305
Stacked, RJ over Two USB Type A, 2.0, No LEDs	RJE361883401
Stacked, RJ Over Two USB Type A 3.0, No LEDs	RJE361883405
Stacked, RJ over USB Type A, 2.0, With LEDs	RJE361883413

PART NUMBERS

Description	Part Numbers
Stacked, RJ Over Two USB Type A 3.0, No LEDs	RJE361883105
Stacked, RJ over USB Type A, 2.0, With LEDs	RJE361883143
Stacked, RJ over Two USB Type A, 2.0, No LEDs	RJE361883201
Stacked, RJ over USB Type A, 2.0, With LEDs	RJE361883443
Stacked, RJ Over Two USB Type A 3.0, No LEDs	RJE361883205
Stacked, RJ over Two USB Type A, 2.0, No LEDs	RJE361883301
Stacked, RJ over USB Type A, 2.0, With LEDs	RJE361883243
Stacked, RJ over USB Type A, 2.0, With LEDs	RJE361883343
Stacked, RJ over USB Type A, 2.0, No LEDs	RJE361883403