

# OneG Series RJ45 High-Speed Connectors – RJE7H

## TAB DOWN CAT5E CONNECTORS

The RJE7H series of 1x1 Tab Down CAT5e jack connectors is one of the top-selling OneG series connectors from Amphenol. With a low profile, no-shield, and no-LED the connector aims to extend the application capability to suit a wide range of Communications, Storage, Consumer, Home, Industrial, and Medical markets. This port is ideal for Industrial Automation where customers are looking for 1000 BaseT speeds at the most economical pricing. The port also offers great POE++ capabilities.

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°C.



### TARGET MARKETS



### FEATURES

- Ratings: CAT5e
- Tab Down
- Unshielded
- No LED
- Available in multiple plating options

### 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
- Standard footprint for PCBs
- Economical on pricing

## 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

### APPROVALS & CERTIFICATION

- RoHS
- REACH
- UL

### MECHANICAL PERFORMANCE

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

### SPECIFICATION

- Amphenol Product Specification: S6241C Rev1

### APPROVALS AND CERTIFICATIONS

- RoHS
- REACH
- UL

### PACKAGING

- Tray for individual connector
- Multiple trays in box packing

### ENVIRONMENTAL

- Operating Temperature Range: -55°C to +85°C
- Recommended Storage Temperature: -20°C to +25°C

### 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
CAT5e Modular Jack RJ45, 8 Positions, Without LEDs, Without Shield, Tab Down 6µin Gold Plating	RJE7H1880110R
CAT5e Modular Jack RJ45, 8 Positions, Without LEDs, Without Shield, Tab Down 50µin Gold Plating	RJE7H1880410R
CAT5e Modular Jack RJ45, 8 Positions, Without LEDs, Without Shield, Tab Down Gold Flash Plating	RJE7H1880F10R

Find part number details using the search box on [www.amphenol-cs.com](http://www.amphenol-cs.com)