One G Series RJ45 High Speed Connectors – RJE7H, RJE7J,RJE7K,RJE7L,RJE7M, RJE7N

ONE GIG – CAT5E CONNECTORS

The One Gig RJ45 CAT5E jack connectors are one of the latest additions to Amphenol's family of RJ connectors. With multiple profiles, orientations, and single/multi-port configurations, along with multiple shield and LED options, these connectors are designed 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 require 1000 Base-T Speeds at the most economical pricing. The port also offers great POE++ capability.

Rated for 750 mating cycles, these connectors offer enhanced durability and are also built to withstand harsh environments with an operating temperature range from -55 °C to +85 °C.



TARGET MARKETS



FEATURES

- Ratings: CAT5E
- Tab Up / Down – RA, Vertical, 45 degree
- Shielded/Unshielded
- LED/Non-LED
- Available in multiple plating options

BENEFITS

- Customers can customize the selection as per the application
- With the modular structure, customers 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 UL 94 V–0, Black
- Contacts: Phosphor Bronze hard temper with Gold thickness options (6 µin, 15 µin, 30 µin, 50 µin) over
- 50 µin min. Nickel on contact mating area. 100 µin 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: 20 MΩ max.
- Insulation Resistance: 500 MΩ min. at 500 V DC for 2 minutes max.
- Voltage Rating: 125 V AC
- Dielectric Withstanding Voltage: 1000 V AC, 60 Hz, 1 minute

MECHANICAL PERFORMANCE

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

SPECIFICATION

- S6241C, S6286C, S6288C, S6289C, S6292C, S6293C

APPROVALS AND CERTIFICATIONS

- RoHS
- REACH

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



Uninterpretable Power Supply (UPS)
ATMs
Vending Machines
POS Terminals
Industrial IoT Platforms



Analysis Equipment
Mass Spectrometers

Disclaimer
Please note that the above information is subject to change without notice.

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
CAT5E Modular Jack, Tab Down, Rigth Angle , Four Port	RJE7J4881410
CAT5E Modular Jack, Tab Down, Rigth Angle , Four Port	RJE7J4881440
CAT5E Modular Jack, Rigth Angle , 2x4 Port	RJE7K8881400
CAT5E Modular Jack, Rigth Angle , 2x4 Port	RJE7K8881410
CAT5E Modular Jack, Rigth Angle , 2x4 Port	RJE7K8881440
CAT5E Modular Jack, Tab Up, Rigth Angle , Single Port	RJE7L1880400
CAT5E Modular Jack, Tab Up, Rigth Angle , Single Port, Shielded	RJE7L1880400
CAT5E Modular Jack, Tab Up, Rigth Angle , Single Port, Shielded	RJE7L1881400
CAT5E Modular Jack, Tab Up, Vertical , Single Port, Shielded	RJE7M1881400
CAT5E Modular Jack, Tab Up, 45 Deg , Single Port	RJE7N1880401
CAT5E MODULAR JACK, TAB UP, 45 DEG , SINGLE PORT, SHIELDED	RJE7N1881401
ONE G SERIES – CAT5E MODULAR JACK, TAB DOWN, RIGHT ANGLE , SINGLE PORT	RJE7J1881100
ONE G SERIES – CAT5E MODULAR JACK, TAB DOWN, RIGHT ANGLE , SINGLE PORT	RJE7J1881400
ONE G SERIES – CAT5E MODULAR JACK, TAB DOWN, RIGHT ANGLE , FOUR PORT	RJE7J4881400

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

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