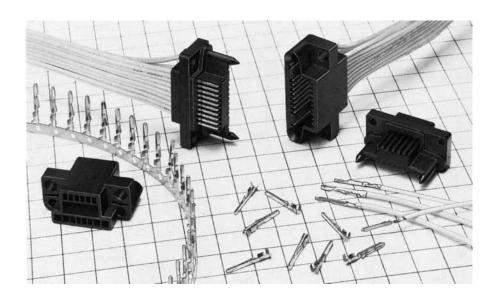
# **QR/P8 SERIES**

Ultra-small Rectangular Multi-electrode solderless Connectors for Rack and Panel Applications

### General

 $\Omega R/P8$  Series is a series of small connectors for rack and panel application. This is a smaller-size version of the  $\Omega R/P$  and  $\Omega R/P1$  Series, whose rectangular multielectrode plug in connectors for racks and panels have

been well received in the market. Three different electrode numbers are available: 8,12 and 20. Wires are connected to the connectors without solder for easier connection and higher reliability.



### **Features**

- (1) The connector of this series is about 20% smaller in length than of the QR/P4 Series with the same number of electrodes.
- (2) Two pairs of electrodes on two sides have a pitch of 5.3 mm at the reinforcement of the housing guide pins, making the connector size smaller and enabling the connector to withstand high voltages. These electrodes therefore can be used for power supply. The terminals for signals have a pitch of 2 mm
- (3) Wires of AWG #20 28 can be connected with the two pairs of terminals on the two sides, while wires of AWG #24 - 28 can be connectord with the termi-

- nals for signals.
- (4) The pins give stable contact pressure because of their point contact with the receptacle blades, and have a larger allowance for the variation of connection length - a characteristic of plug-in connectors.
- (5) The guide pins and the housing body are moulded as one piece to achieve a smaller connector size.
- (6) Since the connectors are mounted on racks or panels with stepped screws, connection and disconnection can be done easily.
- (7) The connectors of this series have passed UL, CSA and TÜV standards.

### **Application**

PPC, Transmission and reception equipment, Data Communication, Vending Machine, Measuring Instruments, Automatic Equipment, Switchboards, etc.

# **Specification**

Main Specifications				
Contact resistance	$30 \mathrm{m}\Omega$ or less at DC 1A			
Insulation resistance	$1000 \mathrm{M}\Omega$ or less at DC 500V			
Withstand voltage (for 1 min.)	Power supply	AC 2000V		
	Signal unit	AC 500V		

Item	Material	Finish
Insulator	Polycarbonate resin UL94V-0	Black
Contact	Phosphor Bronze	Selective Gold plated over Nickel

### **Material and Finish**

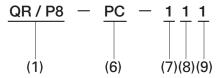
QR/P8 ratings approved by safety standads					
Safety standard		UL, CSA		TÜV	
Operating temperature range		−10 ~ +60°C			
Voltage rating		Power supply	AC 300V		AC 380V
		Signal unit	AC 30V		AC 30V
	AWG#20		3A		2.5A
Rated current	AWG#22		3A		2.5A
	AWG#24		Power unit	2A	2.5A
			Signal unit	2A	1A
	AWG#26		1A		1A
	AWG#28		1A		1A

# **Ordering Information**

▲ Connector Unit

$$\frac{QR/P8}{|} - \frac{12P}{|} - \frac{C (01)}{|}$$
(1) (2)(3) (4) (5)

▲ Contact

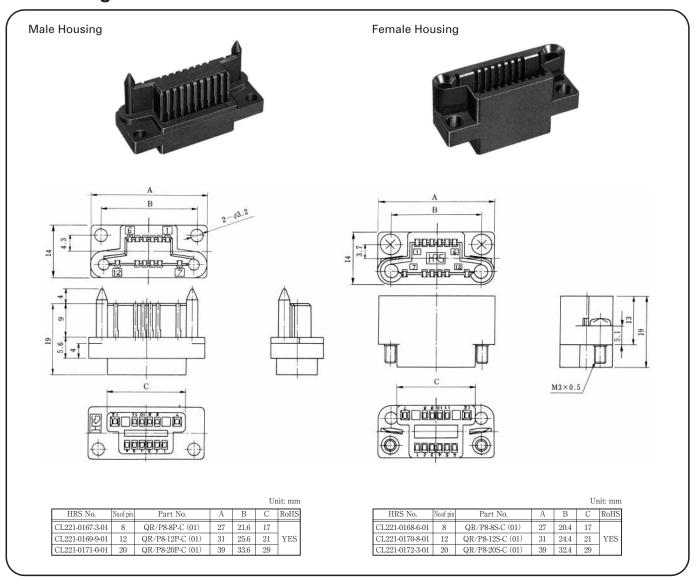


- (1) Series Name
- (2) No.of Pins (8, 12, 20)
- (3) Type of Housing
  - P: Plug Housing
  - S: Socket Housing
- (4) Type of Termination C: Criming
- (5) UL, CSA Approved Spec.
- (6) Type of Contact
  - PC: Pin Contact
  - SC: Socket Contact

- (7) Contact Type
  - 1: Loose Contact
  - 2: Chain Contact
- (8) Applicable wire
  - 1: Thick Wire AWG #20 #24 . . . For two holes at both ends
  - 2: Thin Wire AWG #24 #28
- (9) Finish
  - 1: Selective Gold plated over Nickel

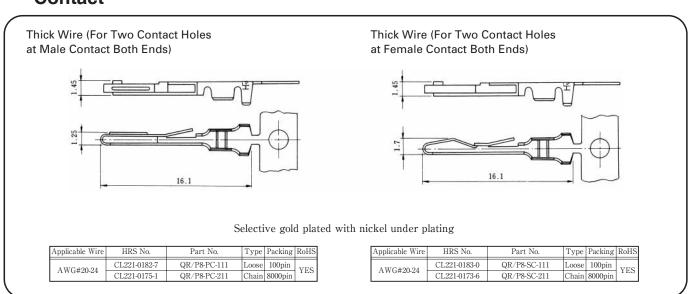
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### Housing

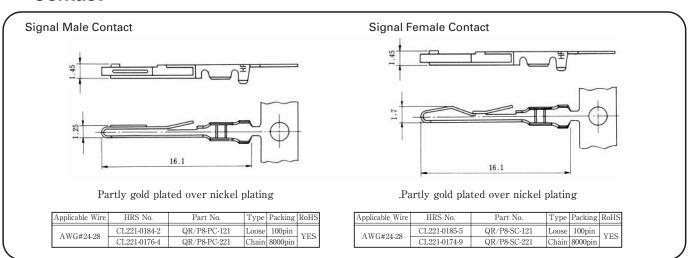


Note: Determine the combinations with the panel so that the mating clearance between the P side and S side is 1mm or less.

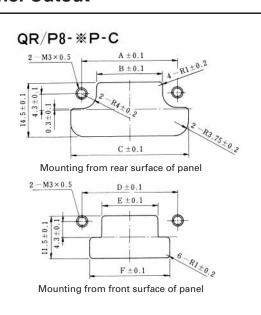
### **Contact**



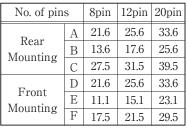
### **Contact**

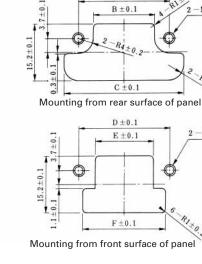


## **Panel Cutout**



No. of pins		8pin	12pin	20pin
Rear Mounting	Α	21.6	25.6	33.6
	В	13.6	17.6	25.6
	С	27.5	31.5	39.5
Front	D	21.6	25.6	33.6
Mounting	Е	11.1	15.1	23.1
	F	17.5	21.5	29.5





QR/P8- \* S-C

No. of pins		8pin	12pin	20pin
Rear Mounting	Α	20.4	24.4	32.4
	В	12.4	16.4	24.4
	С	28.2	32.2	40.2
Front Mounting	D	20.4	24.4	32.4
	Е	11.6	15.6	23.6
	F	18.2	22.2	30.2

 $2-M3\times0.5$ 

Tooling	A





Auto Crimp Machine CM-105 CL901-0005-4

Kind	HRS No.	Part No.	Applicable Contact
Hand Crimp Tool	CL250-0030-4	TC-QR/P8-111	QR/P8-PC-111
		1C-QR/16-111	QR/P8-SC-111
	CL250-0031-7	TC-QR/P8-121	QR/P8-PC-121
			QR/P8-SC-121
Auto Crimp Machine Applicator	CL901-2533-3	AP105-QR/P8-1	QR/P8-PC-211
			QR/P8-SC-211
	CL901-2534-6	AP105-QR/P8-2	QR/P8-PC-221
			QR/P8-SC-221
Contact Extractor	CL250-0033-2	TC-QR/P8-21	

The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information.

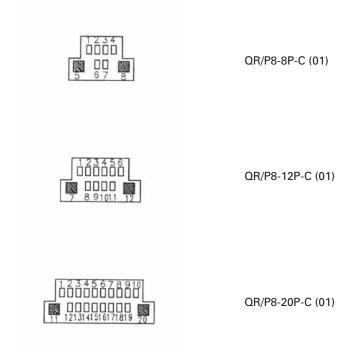
All non-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose website RoHS search at www.hirose-connectors.com, or contact your Hirose sales representative.

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## **Contacts for thick wire Contact Configuration**

Male Housing (Viewed from Wiring Side)

: indicates a contact hole for thick wire



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