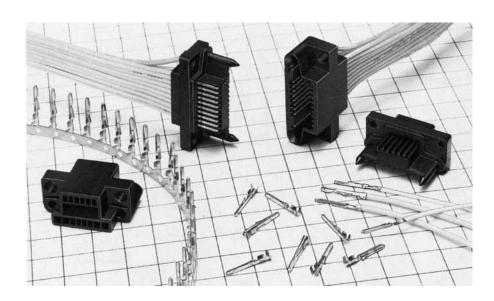
QR/P8 SERIES

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

General

QR/P8 Series is a series of small connectors for rack and panel application. This is a smaller-size version of the QR/P and QR/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

- 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	Power supply	AC 2000V
(for 1 min.)	Signal unit	AC 500V

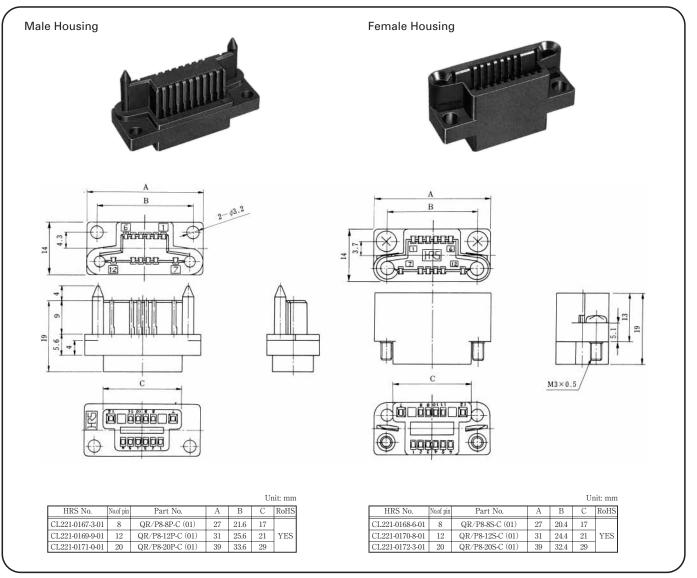
Item	Material	Finish
Insulator	Polycarbonate resin UL94V-0	Black
Contact	Phosphor Bronze	Selective Gold plated over Nickel

QR/	P8 r	atings ap	proved by sa	afety	standads
Safety standard			UL, CSA		ΤÜV
Operating temperature range		$-10 \sim +60^{\circ}$ C			
Voltage rating		Power supply	AC 300V		AC 380V
		Signal unit	AC 30V		AC 30V
	AWG#20		3A		2.5A
A		WG#22	3A		2.5A
Rated current		WC#04	Power unit	2A	2.5A
	A	WG#24	Signal unit	2A	1A
	AWG#26		1A		1A
	A	WG#28	1A		1A

Ordering Information

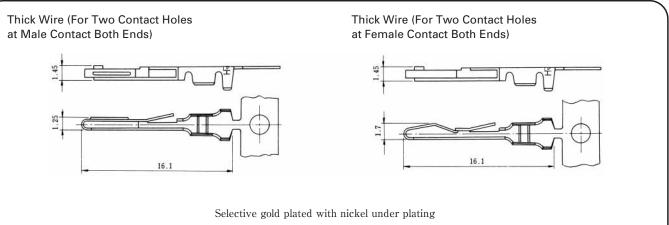
Connector Unit	$\frac{\mathbf{QR} / \mathbf{P8}}{ } = \frac{12 \mathbf{P}}{ } = \frac{\mathbf{C} (01)}{ }$ (1) (2)(3) (4) (5)
▲ Contact	$\frac{QR / P8}{ } = \frac{PC}{ } = \frac{1}{ } \frac{1}{ } \frac{1}{ }$ (1) (6) (7)(8)(9)
(1) Series Name	(7) Contact Type
(2) No.of Pins (8, 12, 20)	1: Loose Contact
(3) Type of Housing	2: Chain Contact
P: Plug Housing	(8) Applicable wire
S: Socket Housing	1: Thick Wire AWG #20 - #24 For two holes at both ends
(4) Type of Termination	2: Thin Wire AWG #24 - #28
C: Criming	(9) Finish
(5) UL, CSA Approved Spec.	1: Selective Gold plated over Nickel
(6) Type of Contact	
PC: Pin Contact	
SC: Socket Contact	

Housing

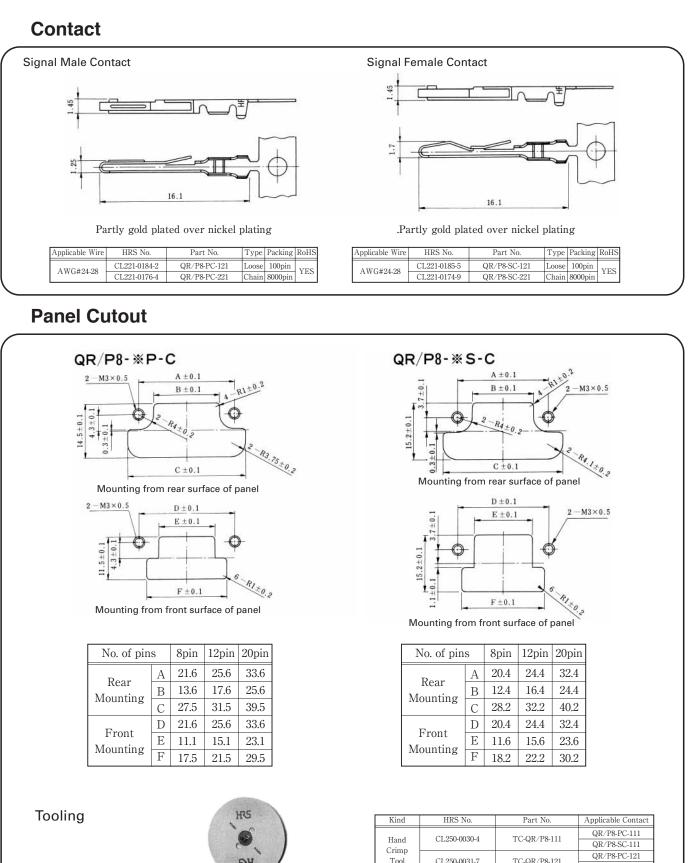


Note: Determine the combinations with the panel so that the mating clearance between the P side and S side is 1mm or less.

Contact



RoHS YES



Hand Crimp Tool



Auto Crimp Machine CM-105 CL901-0005-4

Kind	HRS No.	Part No.	Applicable Contact
TT 1	CL250-0030-4	TC-QR/P8-111	QR/P8-PC-111
Hand Crimp	CL230-0030-4	1C-QR/10-111	QR/P8-SC-111
Tool	CL250-0031-7	TC-QR/P8-121	QR/P8-PC-121
1001	CL230-0031-7	1 C-QR/ F0-121	QR/P8-SC-121
	CL901-2533-3	AP105-QR/P8-1	QR/P8-PC-211
Auto Crimp Machine	CL901-2555-5	AF 103-QR/ F6-1	QR/P8-SC-211
	Applicator CL901-2534-6	AP105-QR/P8-2	QR/P8-PC-221
Applicator			QR/P8-SC-221
Contact Extractor	CL250-0033-2	TC-QR/P8-21	

Contacts for thick wire Contact Configuration

Male Housing (Viewed from Wiring Side)

: indicates a contact hole for thick wire



QR/P8-8P-C (01)



QR/P8-12P-C (01)

QR/P8-20P-C (01)