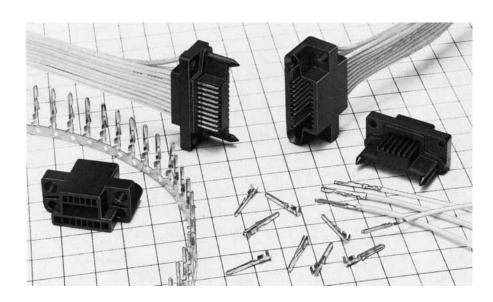
# **QR/P8 SERIES**

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

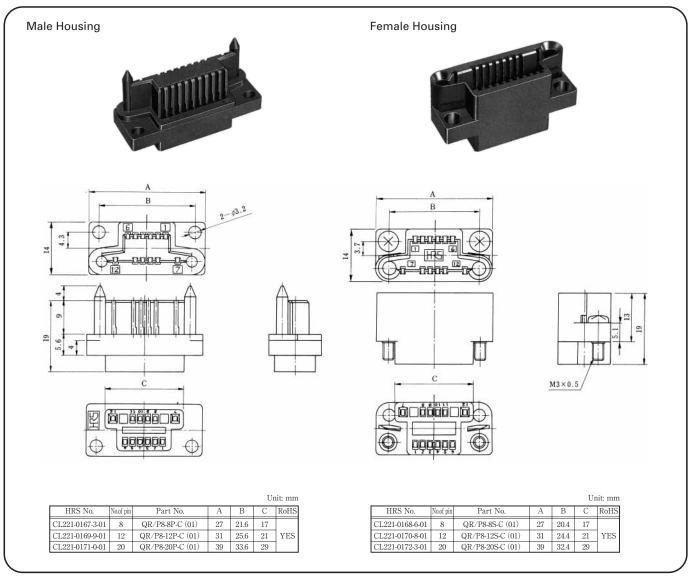
Item	Material	Finish
Insulator	Polycarbonate resin UL94V-0	Black
Contact	Phosphor Bronze	Selective Gold plated over Nickel

QR/	P8 r	atings ap	proved by sa	afety	standads
Safety s	stand	ard	UL, CSA	TÜV	
Operating t rai	emp 1ge	erature	_	10 ~	+ 60°C
Power supply			AC 300	AC 380V	
0		Signal unit	AC 30V	AC 30V	
	AWG#20		3A	2.5A	
	A	WG#22	3A	2.5A	
Rated		WG#24	Power unit	2A	2.5A
current	A	WG#24	Signal unit	2A	1A
	A	WG#26	1A	1A	
	AW		1A		1A

## **Ordering Information**

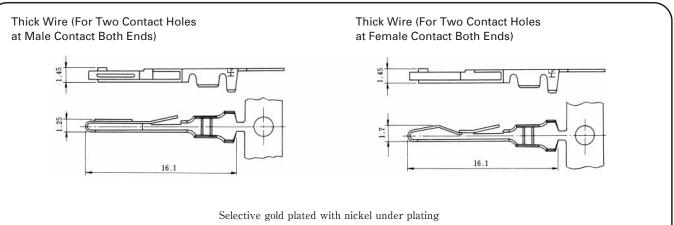
Connector Unit	$\frac{QR / P8}{  } - \frac{12 P}{   } - \frac{C (01)}{    }$ (1) (2)(3) (4) (5)
▲ Contact	$\frac{QR / P8}{  } = \frac{PC}{  } = \frac{1}{  } \frac{1}{  } \frac{1}{  }$ (1) (6) (7)(8)(9)
(1) Series Name	(7) Contact Type
(2) No.of Pins (8, 12, 20)	1: Loose Contact
(3) Type of Housing	2: 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

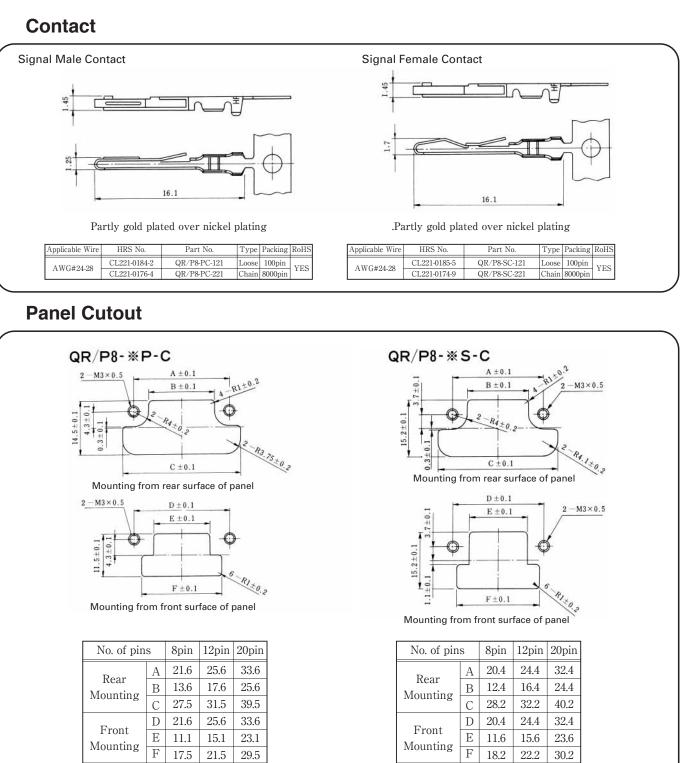


Note: Determine the combinations with the panel so that the mating clearance between the P side and S side is 1mm or less.

#### Contact



olicable Wire	HRS No.	Part No.	Type	Packing	RoHS	
A IV.C #00.04	CL221-0182-7	QR/P8-PC-111	Loose	100pin		100pin VEC
AWG#20-24	CL221-0175-1	QR/P8-PC-211	Chain	8000pin		





Hand Crimp Tool

Tooling



Auto Crimp Machine CM-105 CL901-0005-4

	1/10	ounting	С	28.2	32.2	40.2	
	1		D	20.4	24.4	32.4	
	Front Mounting		Е	11.6	15.6	23.6	
	IVIC	Junung	F	18.2	22.2	30.2	
Kind	1	HRS N	In		Part No.		Applicable Contact
		111(0)1	11105 110.		1 411 110.		QR/P8-PC-111
Hand Crimp	CL250-00	T	C-QR/P8-	111	QR/P8-PC-111 QR/P8-SC-111		
Tool C		OT 050 00	01 7		0 0D (D0	101	QR/P8-PC-121
1 001	l	CL250-00	)31-7	Т	C-QR/P8-	121	QR/P8-PC-121 QR/P8-SC-121
				_	-		
Auto Cr	imp	CL250-00 CL901-25		_	C-QR/P8-3		QR/P8-SC-121
Auto Cr Machi	'imp ne	CL901-25	533-3	Al	P105-QR/I	28-1	QR/P8-SC-121 QR/P8-PC-211
Auto Cr	'imp ne		533-3	Al	-	28-1	QR/P8-SC-121 QR/P8-PC-211 QR/P8-SC-211

### 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)

1213141516171819 

QR/P8-20P-C (01)