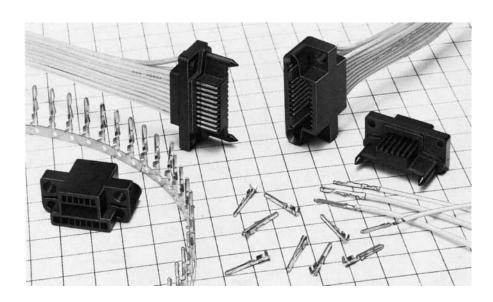
QR/P8 SERIES

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	

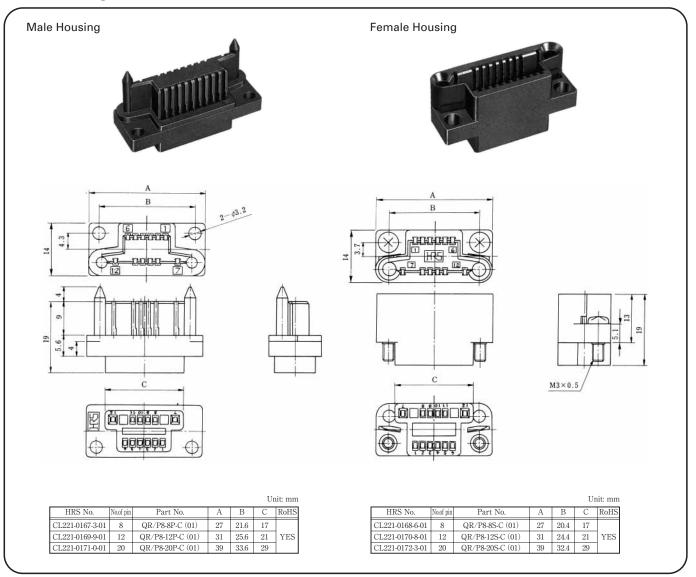
Item	Material	Finish	
Insulator	Polycarbonate resin UL94V-0	Black	
Contact	Phosphor Bronze	Selective Gold plated over Nickel	

QR/	P8 r	atings ap	proved by sa	afety	standads	
Safety s	stand	ard	UL, CSA		TÜV	
Operating temperature range			$-10 \sim +60^{\circ}$ C			
V . 1	ing Power supply Signal unit		AC 300V		AC 380V	
Voltage rat			AC 30V		AC 30V	
	A	WG#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	
	A	WG#28	1A		1A	

Ordering Information

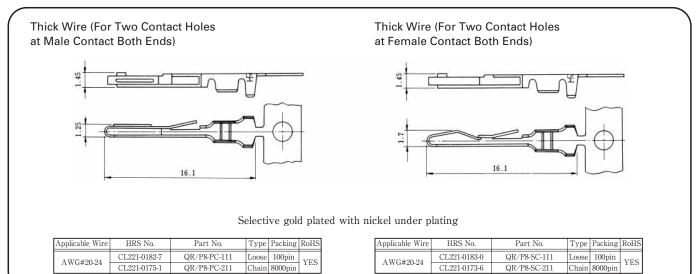
▲ Connector Unit	$\frac{\mathbf{QR} / \mathbf{P8}}{ } = \frac{12 \mathbf{P}}{ } = \frac{\mathbf{C} (01)}{ }$ (1) (2)(3) (4) (5)
▲ Contact	$\frac{QR / P8}{ } - \frac{PC}{ } - \frac{1}{ } \frac{1}{ } \frac{1}{ }$ (1) (6) (7)(8)(9)
 Series Name No.of Pins (8, 12, 20) Type of Housing P: Plug Housing Socket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

Housing

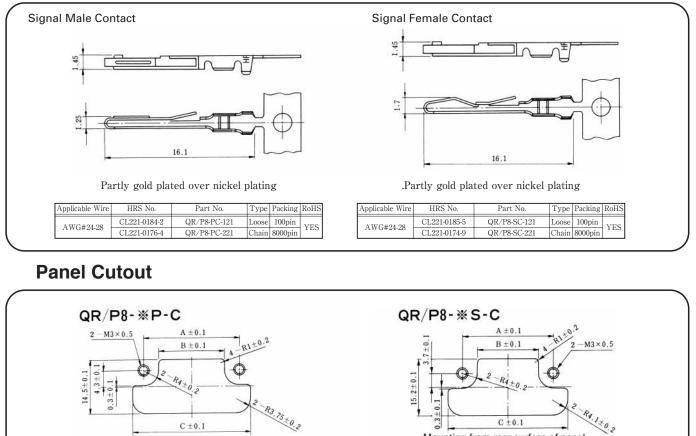


Note: Determine the combinations with the panel so that the mating clearance between the P side and S side is 1mm or less.

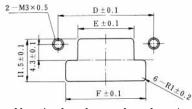
Contact



Contact



Mounting from rear surface of panel



Mounting from front surface of panel

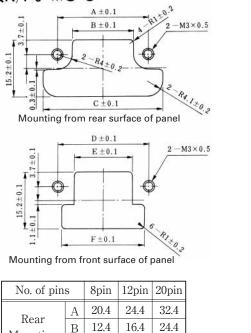
No. of pins		8pin	12pin	20pin
Daar	А	21.6	25.6	33.6
Rear Mounting	В	13.6	17.6	25.6
Mounting	С	27.5	31.5	39.5
Front Mounting	D	21.6	25.6	33.6
	Е	11.1	15.1	23.1
Mounting	F	17.5	21.5	29.5

Tooling



Hand Crimp Tool





	Rear	11			
	Mounting	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

Kind	HRS No.	Part No.	Applicable Contact
Hand Crimp	CL250-0030-4	TC-QR/P8-111	QR/P8-PC-111
	CL250-0030-4	1C-QK/P8-111	QR/P8-SC-111
Tool	*	TC-QR/P8-121	QR/P8-PC-121
1001	01230-0031-7		QR/P8-SC-121
A + 0 *	CL901-2533-3	AP105-QR/P8-1 AP105-QR/P8-2	QR/P8-PC-211
Auto Crimp Machine	CL501-2555-5		QR/P8-SC-211
Applicator			QR/P8-PC-221
ripplicator			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)

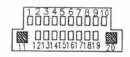
: indicates a contact hole for thick wire



QR/P8-8P-C (01)



QR/P8-12P-C (01)



QR/P8-20P-C (01)