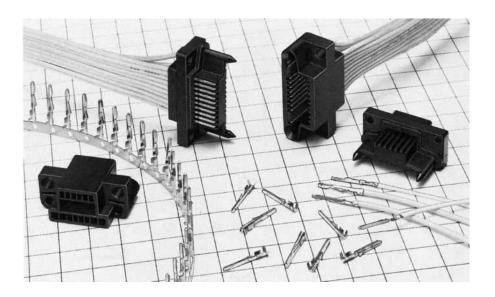
QR/P8 SERIES

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

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

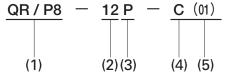
Item	Material	Finish
Insulator	Polycarbonate resin UL94V-0	Black
Contact	Phosphor Bronze	Selective Gold plated over Nickel

Material and Finish

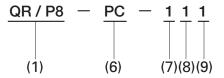
QR/	atings ap	proved by s	afety	standads	
Safety standard		UL, CSA		TÜV	
Operating temperature range		-10 ~ +60°C			
Valtana nati	Power supply		AC 300V		AC 380V
Voltage rating		Signal unit	AC 30V		AC 30V
	AWG#20		3A		2.5A
	A	WG#22	3A		2.5A
Rated		WG#24	Power unit	2A	2.5A
current	AWG#24		Signal unit	2A	1A
	AWG#26		1A		1A
A		WG#28	28 1A		1A

Ordering Information

▲ Connector Unit



Contact

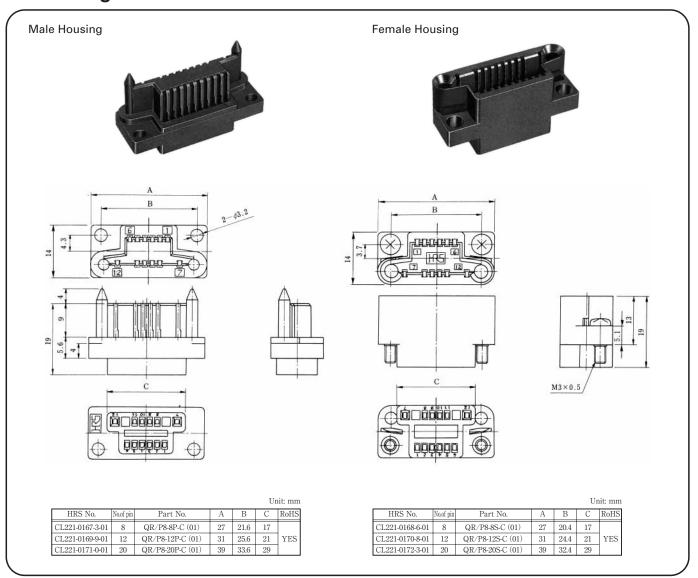


- (1) Series Name
- (2) No. of Pins (8, 12, 20)
- (3) Type of Housing P: Plug Housing
 - S: Socket Housing
- (4) Type of Termination
- C: Criming
- (5) UL, CSA Approved Spec.(6) Type of Contact
 - PC: Pin Contact
 - SC: Socket Contact

- (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

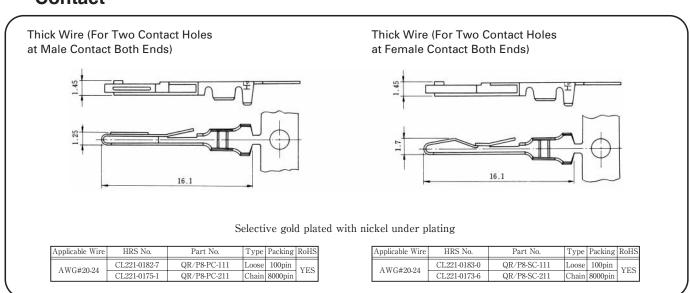
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Housing

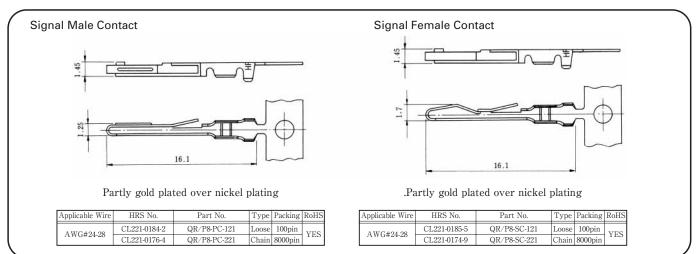


Note: Determine the combinations with the panel so that the mating clearance between the P side and S side is 1mm or less.

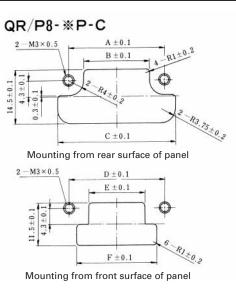
Contact



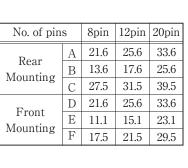
Contact

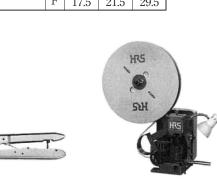


Panel Cutout



No. of pins		8pin	12pin	20pin
D	Α	21.6	25.6	33.6
Rear Mounting	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
Mounting	F	17.5	21.5	29.5





Hand Crimp Tool	Hand	Crimp	Tool	
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Tooling

Auto Crimp
Machine CM-105
CL901-0005-4

1.1	-	A ± 0.1 B ± 0.1	- RI	2-M3×0
3.7±0.	17	B±0.1	7	2-M3×0.
1	O	2-R4±0.2	4	
15.2±0.1),
0.3±0		C ± 0.1		2 R4.1±0
	ting fro	m rear sui	rface of p	panel
		$D\pm 0.1$		
				$2 - M3 \times 0$

Mounting from front surface of panel

 $F \pm 0.1$

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

Kind	HRS No.	Part No.	Applicable Contact
77 1	CL250-0030-4	TC-QR/P8-111	QR/P8-PC-111
Hand	CL250-0050-4	1C-QN/F6-111	QR/P8-SC-111
Crimp Tool	CL250-0031-7	TC-QR/P8-121	QR/P8-PC-121
	CL250-0051-7	10-91/16-121	QR/P8-SC-121
Auto Crimp Machine Applicator	CL901-2533-3 CL901-2534-6	AP105-QR/P8-1	QR/P8-PC-211
		A1 103-QIV 1 6-1	QR/P8-SC-211
		AP105-QR/P8-2	QR/P8-PC-221
	CL901-2354-0	AF 100-QR/ F6-2	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

