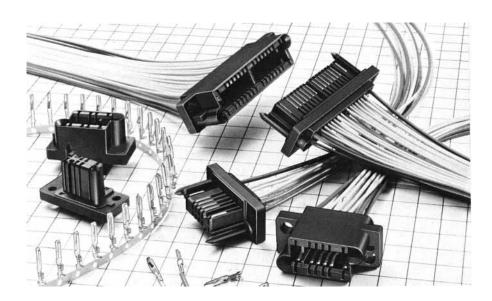
# **QR/P4 SERIES**

#### Small Rectangular Multi-electrode Solderless Connectors for Racks and Panels

#### General

QR/P4 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. Six models with different numbers of contacts are available: 8, 12, 16, 24 32 and 40. Wires are connected to the connectors without solder for easier connection and higher reliability.



#### Features

- The pins can be smoothly inserted into the receptacle, and give stable contact pressure bcause of their point contact with the receptacle blades.Furthermore, they have a larger allowance for the variation of connection length - a characteristic of plug-in connections.
- (2) The connector size has been made smaller by separating the terminals for signals from those for voltage supply.
- (3) The pitch of the signal terminals inside the housing is 2.54mm. Tow pairs of diametrically opposed electrodes (four electrodes in total) on the two sides are arranged with a pitch of 5.08mm so that they can

withstand high voltage, and can be used for power supply. In addition, a nonflammable material (UL94V-0) is used as the insulating housing of the connectors.

- (4) Guide pins and the housing body are molded as one piece to achieve a smaller connector size.
- (5) Since the connectors are mounted on racks or panels with stepped screws, connection and disconnection can be done easily.
- (6) The contact for female terminals in the housing is deeper than the fitting surface of the housing which conforms to the finger test (UL Standard 1950).
- (7) The connectors of this series have passed UL, CSA and TÜV standard.

#### **Application**

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

# Specification

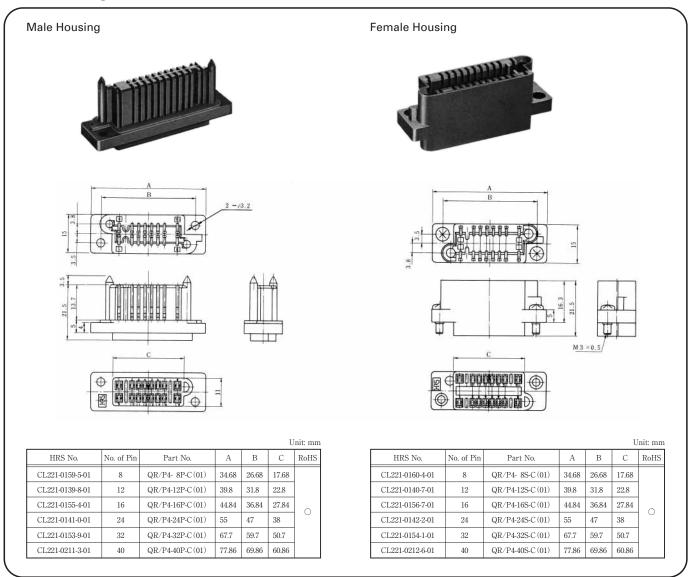
	Specifications			
Power	Max. 15m $\Omega$ at DC1A			
Signal	Max. 15m $\Omega$ at DC1A			
Min. 500	00MΩ at DC500V			
Power	AC 2000V			
Signal	AC 500V			
Power	3A			
Signal	1A			
Power	AC 300V			
Signal	AC 250V			
	Signal Min. 500 Power Signal Power Signal Power			

Item	Ma	terial	Finish			
Insulato	r PBT resin	*:UL94V-0	Black			
Contact	Phospho	or Bronze	Selective Gold plating over Nickel			
			·			
	Ratings authoriz	zed by QR/P4	safety standards			
Safet	y standard	UL. CSA. TÜV				
Operatin	g temperature	$-10 \sim +60$ °C				
Rated	Power supply	AC 30V	AC380V, DC450V			
Voltage	Signal unit	AC 250V	AC120V, DC150V			
	AWG#20	2.4	2.5A			
	AWG#22	3A				
Rated current	AWG#24	2A	1A			
carrent	AWG#26	1.4				
	AWG#28	1A				

## **Ordering Information**

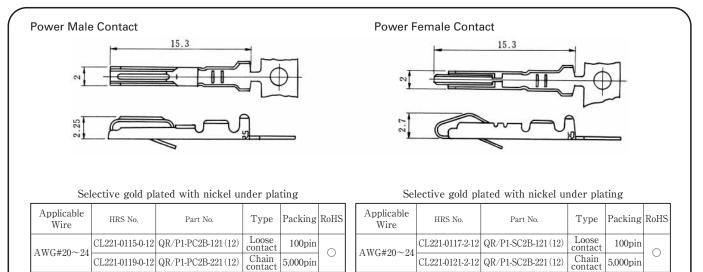
Connector Unit	$\frac{\mathbf{QR}/\mathbf{P4}}{\begin{vmatrix} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$
▲ Contact	$\frac{QR/P1}{  } - \frac{PC2A}{  } - \frac{1}{  } \frac{1}{  } \frac{1}{  }$ (1) (5) (6) (7)(8)(9)
<ol> <li>Series name</li> <li>No.of contacts (8, 12, 16, 24, 32, 40)</li> <li>Type of Housing P: Plug Housing</li> </ol>	2B: Thin Wire (UL1007 Type) For 4 contact holes at both ends (7) Contact Type
S: Socket Housing (4) Type of termination C: Criming	1: Loose Contact 2: Chain Contact (8) Applicable wire
<ul> <li>(5) Type of Contact</li> <li>PC: Pin Contact</li> <li>SC: Socket Contact</li> </ul>	1: Thin Wire AWG #24 - #28 2: Thick Wire AWG #20 - #24 (9) Finish 1: Selective Gold plated over Nickel
	(10) UL, CSA, TÜV Approved Spec

#### Housing

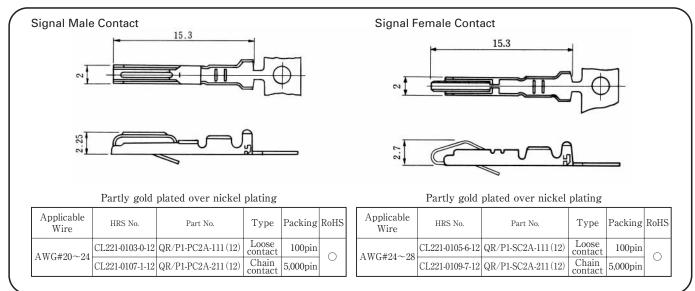


Note: Determine the combinations with the panel so that the mating clearance between the P side and S side is 1.5mm or less.

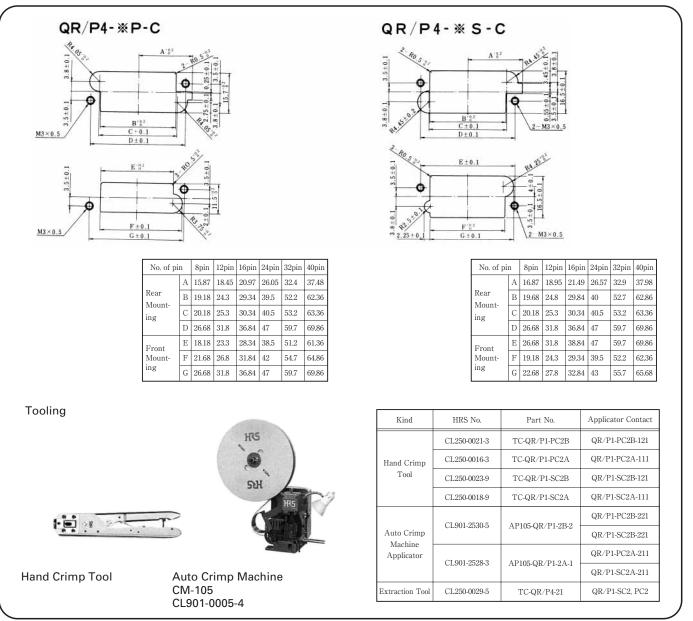
#### Contact



### Contact



## **Panel Cutout**



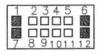
#### Contacts for thick wire Contact Configuration

Male Housing (Viewed from Wiring Side)

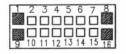
: indicates a contact hole for thick wire



QR/P4-8P-C (01)



QR/P4-12P-C (01)



QR/P4-16P-C (01)

1	2	3	4	5	6	7	8	9	10	11	12
14											24
13	14	15	16	17	18	19	20	21	22	23	24

QR/P4-24P-C (01)

12	3	4	5	6	7	8	9	10	11	12	13	14	15	16
														22
17 18														2
17 18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

QR/P4-32P-C (01)

21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 3	

QR/P4-40P-C (01)

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