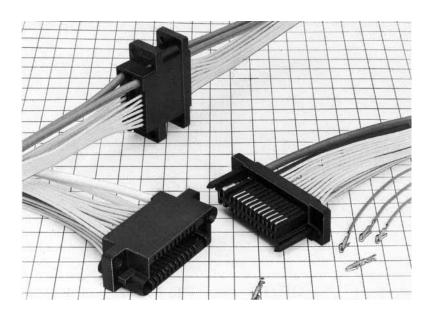
# **QR/P6 SERIES**

#### QR/P6 SERIES RECTANGULAR MINIATURE MULTI-CONTACT RACK/PANEL CRIMP CONNECTOR

#### General

The QR/P6 Series are miniaturized versions of the QR/P and QR/P1 series. Rectangular multi-contact rack and panel connectors for plug-in connection.

Available in 6, 12, 16, and 24 contacts for highly efficient and reliable crimp termination.



#### **Features**

- (1) Offers smooth insertion/extraction and stable contact pressure through point-blade contact, and has ample allowance for the deviations in contact length specific to plug-in connection.
- (2) Miniaturized by separating power contacts from signal contacts.
- (3) Signal contacts in the housing are located in pitches of 2.54mm. The opposed contacts at one end of the connector are spaced 6.9mm so that they can withstand high voltage. Can be used for power supplies. Uses flame-retardant insulator (UL94-0).
- (4) Miniaturized using guide pins integral with the insulator.
- (5) Ensures smooth insertion and extraction, and designed to be fixed with stepped screws on a panel or rack.
- (6) The female housing is designed to allow the contact part of the female terminal to be below the mating surface, meeting the Finger Test Requirements (complying with UL 1950)
- (7) The connectors of the series have passed UL, CSA and TÜV standard.

## **Application**

PPC, Transmission/Reception equipment, Data Communication, equipment, Vending machines,

Measuring Instruments, Automation equipment, Switch-boards.

#### **Main Specification**

General ratings of QR/P6					
Contact Resistance	Power terminal	$10m\Omega$ or less at DC1A			
	Signal terminal	$15.m\Omega$ or less at DC1A			
Insulation Resistance	$5000 \mathrm{M}\Omega$ or less at DC $500 \mathrm{V}$				
Withstand Voltage (for 1 min.)	Power unit	AC 1000V			
	Signal unit	AC 500V			
Rated current	Power terminal	10A			
	Signal terminal	1A			
Rated voltage	AC 120V				

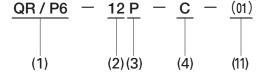
Main materials					
Insulator	PBT resin	Black			
Terminal	Phosphor bronze	Selective Gold plating with nickel underplating			
		+ III 0 4II 0			

\* UL94V-0

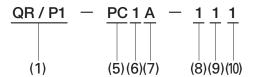
QR/P6 ratings approved by safety standards					
Safety standard		UL	CSA	TÜV	
Operating temperature range		-10~+60℃			
Rated voltage	Power supply unit		AC 250V		AC250V
	Signal unit				AC125V
	AWG#14		10A	10A	10A
	AWG#16			8A	
	AWG#18		5A	5A	5A
Rated current	AWG#20		3A	3A	2.5A
	AWG#22				1A
	AWG #24	Power supply	3A	3A	1A
		Signal unit	1A	2A	
	AWG#26		1A	1A	1A
	AWG#28				

#### **Ordering Information**

▲ Connector Unit



▲ Contact

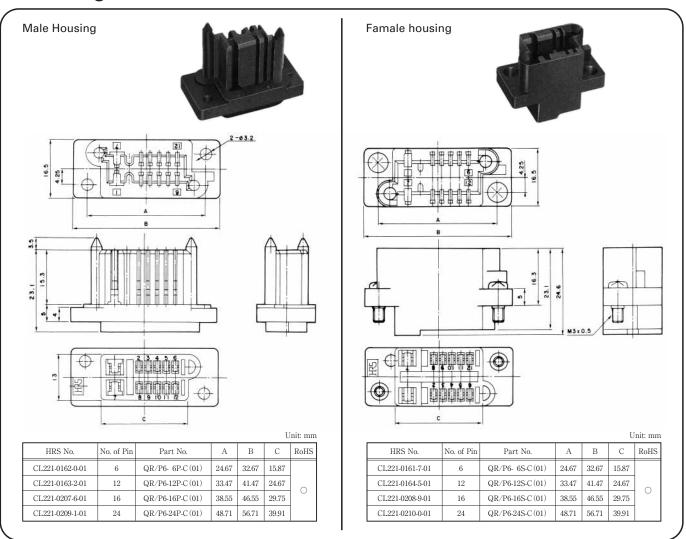


- (1) Series name
- (2) No.of contacts (6, 12, 16, 24)
- (3) Shape of insulator mating part P: Insulator male case
  - S: Insulator female case
- (4) Type of termination
  - C: Crimp termination
- (5) Male/Female
  - PC: Male crimp terminal
  - SC: Female crimp terminal
- (6) Type
  - 1: Power terminal
  - 2: Signal terminal

- (7) Crimp barrel size
  - A: For thin wires
  - B: For thick wires
- (8) Shape
  - 1: Loose contact
  - 2: Chain contact
- (9) Applicable wire
  - 1: Power terminal AWG # 18 # 24 Signal terminal AWG # 24 - # 28
  - 2: Power terminal AWG # 14 # 16 Signal terminal AWG # 22
- (10) Surface terminal
  - 1: Selective gold plating with nickel underplating
- (11) Specifications meeting UL, CSA TÜV requirements

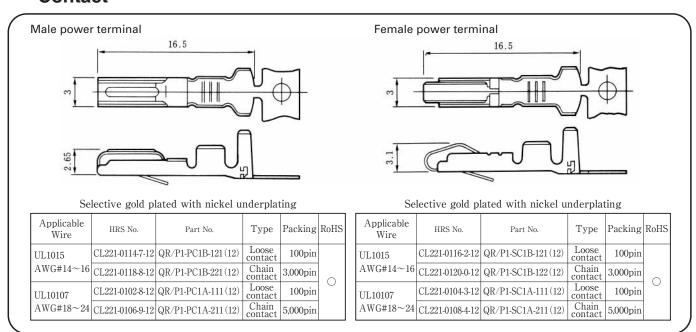
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#### Housing

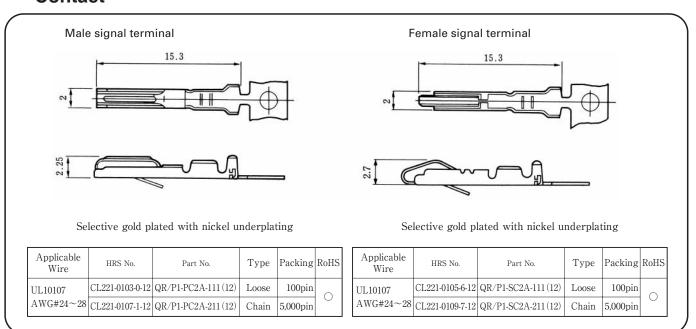


Note: Determine the combinations with the panel so that the mating clearance between the P side and S side is 1.5mm.

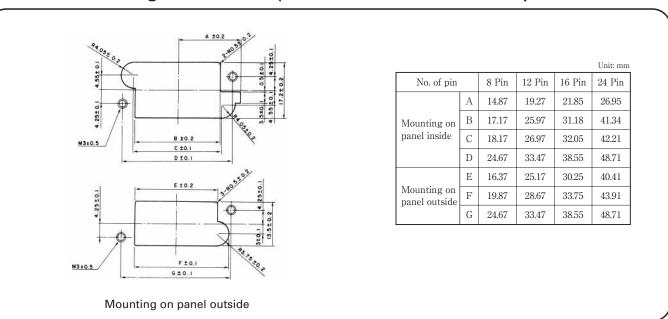
#### **Contact**



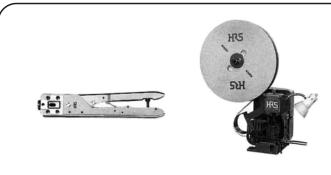
#### Contact



## Panel Mounting Dimensions (for Cases with P Insulation)



#### **Applicable Tools**



Hand crimping tool Automatic crimping machine CM-105 CL901-0005-4

Type	HRS No.	Part No.	Applicator terminay
Hand Crimp Tool	CL250-0020-0	TC-QR/P1-PC1B	QR/P1-PC1B-121
	CL250-0015-0	TC-QR/P1-PC1A	QR/P1-PC1A-111
	CL250-0022-6	TC-QR/P1-SC1B	QR/P1-SC1B-121
	CL250-0017-6	TC-QR/P1-SC1A	QR/P1-SC1A-111
	CL250-0016-3	TC-QR/P1-PC2A	QR/P1-PC2A-111
	CL250-0018-9	TC-QR/P1-SC2A	QR/P1-SC2A-111
Auto Crimp Machine Applicator	CL901-2529-6	AP105-QR/P1-1B-2	QR/P1-PC1B-221
		AF103-QR/F1-1D-2	QR/P1-SC1B-221
	CL901-2527-0	AP105-QR/P1-1A-1	QR/P1-PC1A-211
		AP105-QR/P1-1A-1	QR/P1-SC1A-211
	CL901-2528-3	A D105 OD /D1 0 A 1	QR/P1-PC2A-211
		AP105-QR/P1-2A-1	QR/P1-SC2A-211
Hand Tool	CL250-0242-2	TC-QR/P6-21	

## **Contacts for thick wire Contact Configuration**

Male Housing (Viewed from Wiring Side)

: indicates a contact hole for thick wire

