

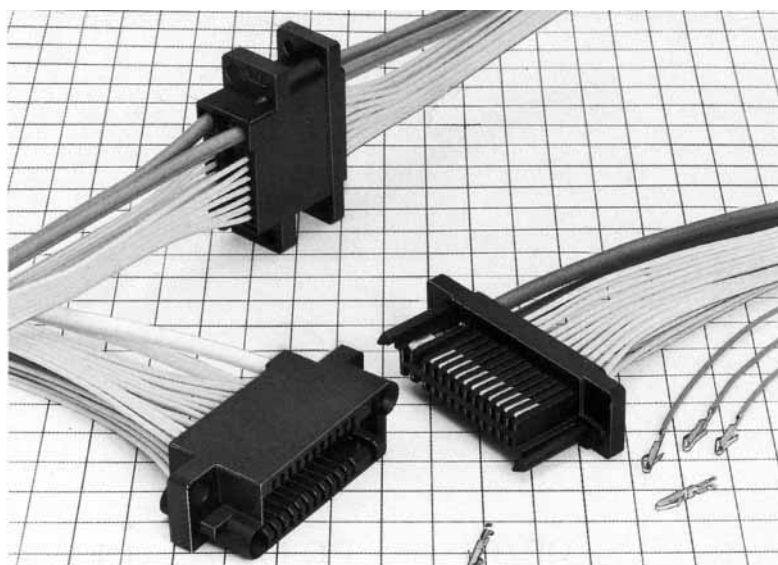
# QR/P6 SERIES

## 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

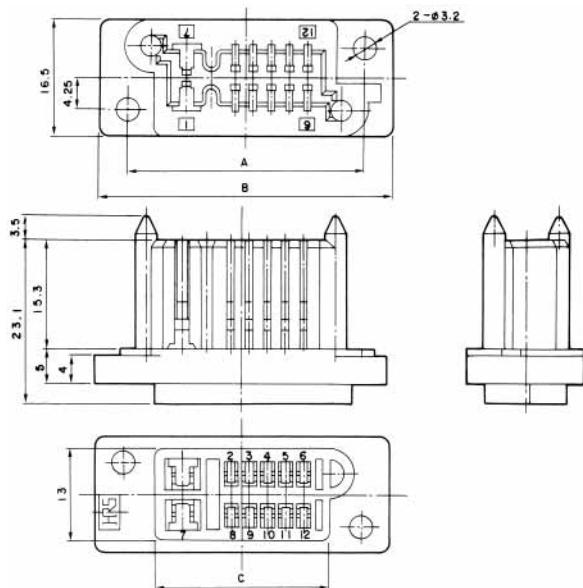
PPC, Transmission/Reception equipment, Data Communication, equipment, Vending machines,

Measuring Instruments, Automation equipment, Switch-boards.



## Housing

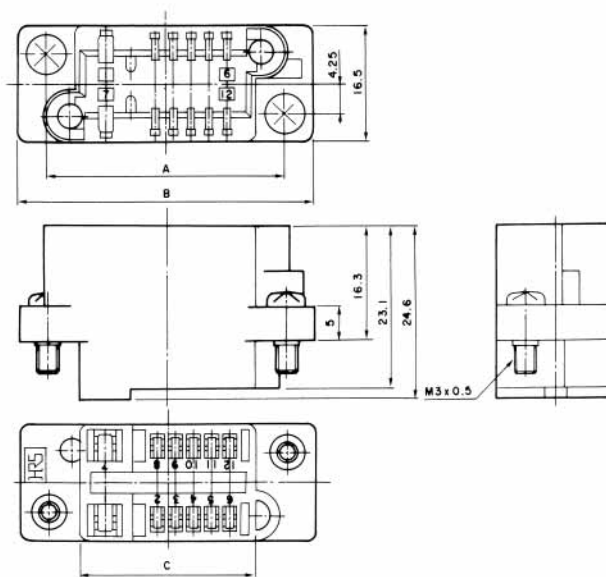
### Male Housing



Unit: mm

HRS No.	No. of Pin	Part No.	A	B	C	RoHS
CL221-0162-0-01	6	QR/P6- 6P-C (01)	24.67	32.67	15.87	○
CL221-0163-2-01	12	QR/P6-12P-C (01)	33.47	41.47	24.67	
CL221-0207-6-01	16	QR/P6-16P-C (01)	38.55	46.55	29.75	
CL221-0209-1-01	24	QR/P6-24P-C (01)	48.71	56.71	39.91	

### Female housing



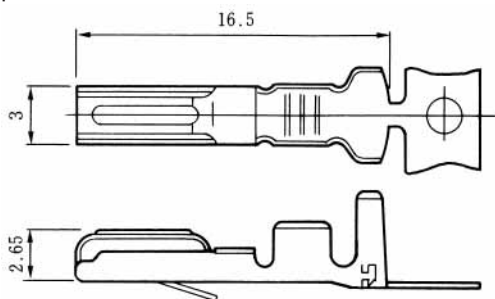
Unit: mm

HRS No.	No. of Pin	Part No.	A	B	C	RoHS
CL221-0161-7-01	6	QR/P6- 6S-C (01)	24.67	32.67	15.87	○
CL221-0164-5-01	12	QR/P6-12S-C (01)	33.47	41.47	24.67	
CL221-0208-9-01	16	QR/P6-16S-C (01)	38.55	46.55	29.75	
CL221-0210-0-01	24	QR/P6-24S-C (01)	48.71	56.71	39.91	

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

## Contact

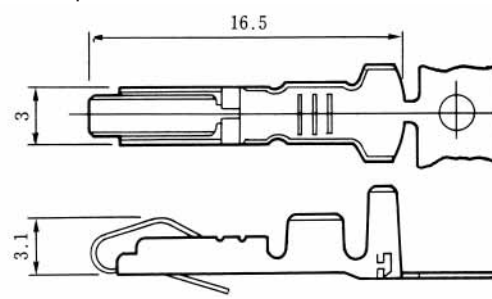
### Male power terminal



Selective gold plated with nickel underplating

Applicable Wire	HRS No.	Part No.	Type	Packing	RoHS
UL1015 AWG#14~16	CL221-0114-7-12	QR/P1-PC1B-121 (12)	Loose contact	100pin	○
	CL221-0118-8-12	QR/P1-PC1B-221 (12)	Chain contact	3,000pin	
UL10107 AWG#18~24	CL221-0102-8-12	QR/P1-PC1A-111 (12)	Loose contact	100pin	
	CL221-0106-9-12	QR/P1-PC1A-211 (12)	Chain contact	5,000pin	

### Female power terminal

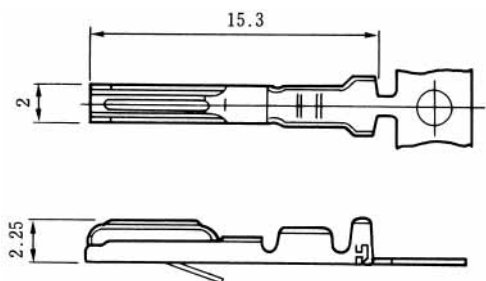


Selective gold plated with nickel underplating

Applicable Wire	HRS No.	Part No.	Type	Packing	RoHS
UL1015 AWG#14~16	CL221-0116-2-12	QR/P1-SC1B-121 (12)	Loose contact	100pin	○
	CL221-0120-0-12	QR/P1-SC1B-122 (12)	Chain contact	3,000pin	
UL10107 AWG#18~24	CL221-0104-3-12	QR/P1-SC1A-111 (12)	Loose contact	100pin	
	CL221-0108-4-12	QR/P1-SC1A-211 (12)	Chain contact	5,000pin	

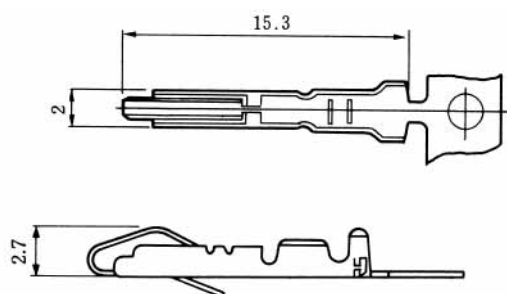
## Contact

Male signal terminal



Selective gold plated with nickel underplating

Female signal terminal

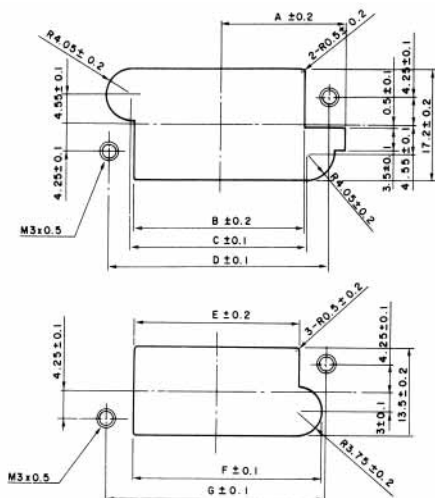


Selective gold plated with nickel underplating

Applicable Wire	HRS No.	Part No.	Type	Packing	RoHS
UL10107	CL221-0103-0-12	QR/P1-PC2A-111 (12)	Loose	100pin	○
AWG#24~28	CL221-0107-1-12	QR/P1-PC2A-211 (12)	Chain	5,000pin	

Applicable Wire	HRS No.	Part No.	Type	Packing	RoHS
UL10107	CL221-0105-6-12	QR/P1-SC2A-111 (12)	Loose	100pin	○
AWG#24~28	CL221-0109-7-12	QR/P1-SC2A-211 (12)	Chain	5,000pin	

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



Mounting on panel outside

Unit: mm

No. of pin		8 Pin	12 Pin	16 Pin	24 Pin
Mounting on panel inside	A	14.87	19.27	21.85	26.95
	B	17.17	25.97	31.18	41.34
	C	18.17	26.97	32.05	42.21
	D	24.67	33.47	38.55	48.71
Mounting on panel outside	E	16.37	25.17	30.25	40.41
	F	19.87	28.67	33.75	43.91
	G	24.67	33.47	38.55	48.71

## Applicable Tools



Hand crimping tool



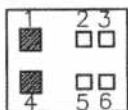
Automatic crimping machine  
 CM-105  
 CL901-0005-4

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 QR/P1-SC1B-221
	CL901-2527-0	AP105-QR/P1-1A-1	QR/P1-PC1A-211 QR/P1-SC1A-211
	CL901-2528-3	AP105-QR/P1-2A-1	QR/P1-PC2A-211
			QR/P1-SC2A-211
Hand Tool	CL250-0242-2	TC-QR/P6-21	

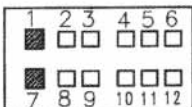
## Contacts for thick wire Contact Configuration

Male Housing (Viewed from Wiring Side)

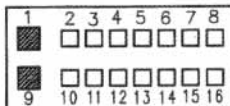
■: indicates a contact hole for thick wire



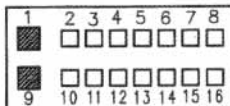
QR/P6-6P-C (01)



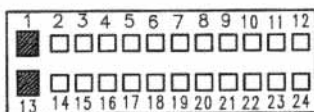
QR/P6-12P-C (01)



QR/P6-16P-C (01)



QR/P6-24P-C (01)



QR/P1-32P-C (01)