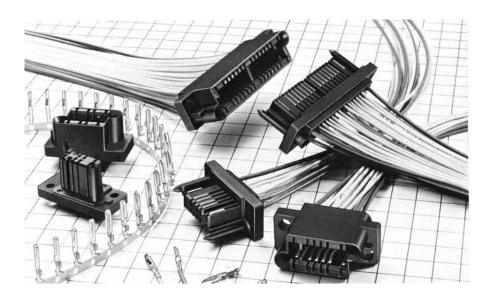
QR/P4 SERIES

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

- (1) The pins can be smoothly inserted into the receptacle, and give stable contact pressure beause 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.

TEL: 400-022-

Specification

Item		Specifications	
Contact Resistance	Power	Max. 15m Ω at DC1A	
Contact Resistance	Signal	Max. 15mΩ at DC1A	
Insulation Resistance	Min. 500	00MΩ at DC500V	
Withstand Voltage	Power	AC 2000V	
(for 1 minute)	Signal	AC 500V	
Rated Current	Power	3A	
Kated Current	Signal	1A	
Poted Voltage	Power	AC 300V	
Rated Voltage	Signal	AC 250V	

Item	Material	Finish
Insulator	PBT resin *:UL94V-0	Black
Contact	Phosphor Bronze	Selective Gold plating over Nickel

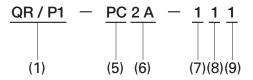
Ratings authorized by QR/P4 safety standards						
Safet	y standard	UL. CSA. TÜV				
Operatin	g temperature		-10~+60°C			
Rated	Power supply	AC 30V	AC380V, DC450V			
Voltage	Signal unit	AC 250V	AC120V, DC150V			
	AWG#20	2.4	2.5A			
	AWG#22	3A				
Rated current	AWG#24	2A	1A			
current	AWG#26	1.0				
	AWG#28	1A				

Ordering Information

▲ Connector Unit

$$\frac{QR/P4}{|} - \frac{12P}{|} - \frac{C}{|} - \frac{(01)}{|}$$
(1) (2)(3) (4) (10)

Contact



- (1) Series name
- (2) No.of contacts (8, 12, 16, 24, 32, 40)
- (3) Type of Housing
 - P: Plug Housing
 - S: Socket Housing
- (4) Type of termination
 - C: Criming
- (5) Type of Contact
 - PC: Pin Contact
 - SC: Socket Contact

- (6) Size of Barrel
 - 2A: Thin Wire (UL1007 Type)
 - 2B: Thin Wire (UL1007 Type) . . . For 4 contact holes at both ends
- (7) Contact Type
 - 1: Loose Contact
 - 2: Chain Contact
- (8) Applicable wire
 - 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

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All non-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose website RoHS search at www.hirose-connectors.com, or contact your Hirose sales representative. 连接器网一一汇勤电子旗下网站,一站解决电气信号连接问题 http://www.Ljqw.top/ TEL:400-022-7728

Housing

Male Housing Female Housing M3×0.5 Unit: mm Unit: mm HRS No No. of Pin Α В C RoHS HRS No No. of Pin В С RoHS Part No. Part No Α QR/P4-8P-C(01) 17.68 34.68 26.68 17.68 CL221-0159-5-01 34.68 26.68 CL221-0160-4-01 QR/P4- 8S-C (01) 8 CL221-0139-8-01 12 QR/P4-12P-C (01) 39.8 31.8 22.8 CL221-0140-7-01 12 QR/P4-12S-C (01) 39.8 31.8 22.8 CL221-0155-4-01 16 QR/P4-16P-C (01) 44.84 36.84 27.84CL221-0156-7-01 16 QR/P4-16S-C (01) 44.84 36.84 27.84 CL221-0141-0-01 24 55 CL221-0142-2-01 24 QR/P4-24S-C (01) 55 QR/P4-24P-C (01) 47 38 CL221-0153-9-01 32 QR/P4-32P-C (01) 67.7 59.7 50.7 CL221-0154-1-01 32 QR/P4-32S-C (01) 67.7 59.7 50.7

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

77.86 69.86 60.86

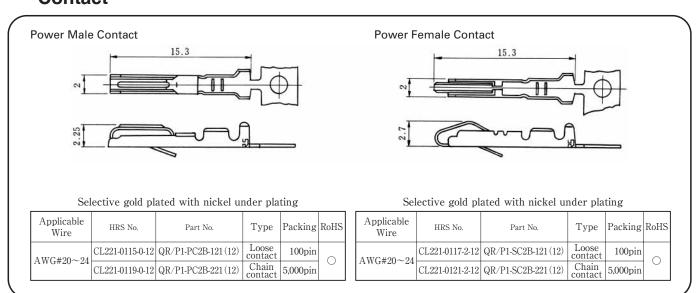
Contact

CL221-0211-3-01

40

QR/P4-40P-C (01)

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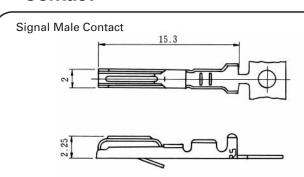
CL221-0212-6-01

40

QR/P4-40S-C (01)

77.86 69.86 60.86

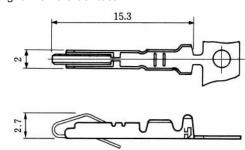
Contact



Partly gold plated over nickel plating

Applicable Wire	HRS No.	Part No.	Туре	Packing	RoHS
AWG#20~24	CL221-0103-0-12	QR/P1-PC2A-111 (12)	Loose contact	100pin	
A W G#20* - 24		QR/P1-PC2A-211 (12)	Chain contact	5,000pin	

Signal Female Contact

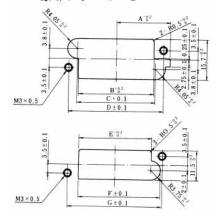


Partly gold plated over nickel plating

Applicable Wire	HRS No.	Part No.	Туре	Packing	RoHS
AWG#24~28	CL221-0105-6-12	QR/P1-SC2A-111 (12)	Loose contact	100pin	
AWG#24**20		QR/P1-SC2A-211 (12)	Chain contact	5,000pin	

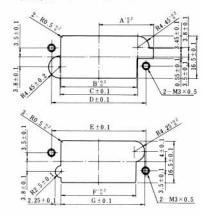
Panel Cutout

QR/P4-*P-C



No. of pi	n	8pin	12pin	16pin	24pin	32pin	40pin
	Α	15.87	18.45	20.97	26.05	32.4	37.48
Rear Mount-	В	19.18	24.3	29.34	39.5	52.2	62.36
ing	С	20.18	25.3	30.34	40.5	53.2	63.36
5	D	26.68	31.8	36.84	47	59.7	69.86
Front	Е	18.18	23.3	28.34	38.5	51.2	61.36
Mount-	F	21.68	26.8	31.84	42	54.7	64.86
ing	G	26.68	31.8	36.84	47	59.7	69.86

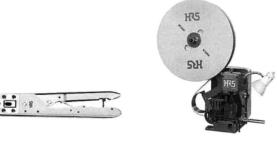
QR/P4- * S-C



No. of pi	n	8pin	12pin	16pin	24pin	32pin	40pin
	А	16.87	18.95	21.49	26.57	32.9	37.98
Rear Mount-	В	19.68	24.8	29.84	40	52.7	62.86
ing	С	20.18	25.3	30.34	40.5	53.2	63.36
5	D	26.68	31.8	36.84	47	59.7	69.86
Front	Е	26.68	31.8	38.84	47	59.7	69.86
Mount-	F	19.18	24.3	29.34	39.5	52.2	62.36
ing	G	22.68	27.8	32.84	43	55.7	65.68

Tooling

Hand Crimp Tool



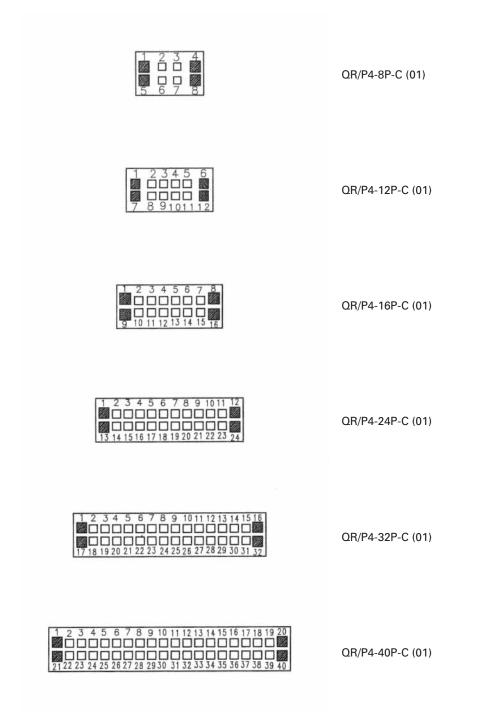
Auto Crimp Machine
CM-105
CL901-0005-4

Kind	HRS No.	Part No.	Applicator Contact
	CL250-0021-3	TC-QR/P1-PC2B	QR/P1-PC2B-121
Hand Crimp	CL250-0016-3	TC-QR/P1-PC2A	QR/P1-PC2A-111
Tool	CL250-0023-9	TC-QR/P1-SC2B	QR/P1-SC2B-121
	CL250-0018-9	TC-QR/P1-SC2A	QR/P1-SC2A-111
	CI 001 2520 5	AP105-QR/P1-2B-2	QR/P1-PC2B-221
Auto Crimp Machine	CL901-2530-5	AP105-QR/P1-2B-2	QR/P1-SC2B-221
Applicator	CL901-2528-3	AP105-QR/P1-2A-1	QR/P1-PC2A-211
	CL501-2326-3	AF105-QR/F1-2A-1	QR/P1-SC2A-211
Extraction Tool	CL250-0029-5	TC-QR/P4-21	QR/P1-SC2, PC2

Contacts for thick wire Contact Configuration

Male Housing (Viewed from Wiring Side)

: indicates a contact hole for thick wire



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