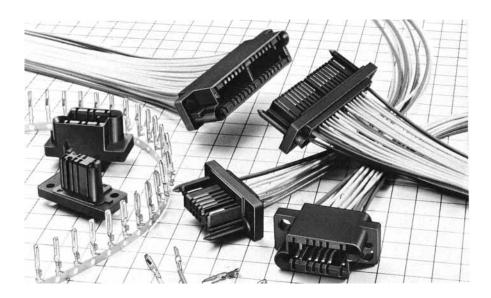
QR/P4 SERIES

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.

Specification

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

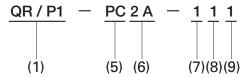
Item	Material	Finish
Insulator	PBT resin *:UL94V-0	Black
Contact	Phosphor Bronze	Selective Gold plating over Nickel

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

Ordering Information

▲ Connector Unit

▲ 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

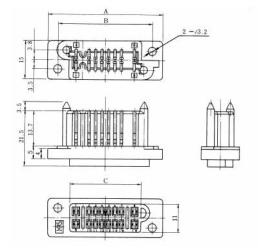
 - 1: Thin Wire AWG #24 #28
 - 2: Thick Wire AWG #20 #24
- (9) Finish
 - 1: Selective Gold plated over Nickel
- (10) UL, CSA, TÜV

Approved Spec

Housing

Male Housing

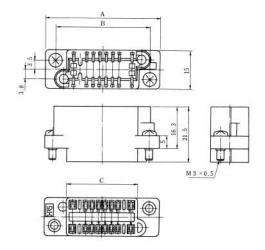




						U	nit: mm
	HRS No.	No. of Pin	Part No.	А	В	С	RoHS
Ī	CL221-0159-5-01	8	QR/P4- 8P-C (01)	34.68	26.68	17.68	
	CL221-0139-8-01	12	QR/P4-12P-C (01)	39.8	31.8	22.8	
	CL221-0155-4-01	16	QR/P4-16P-C (01)	44.84	36.84	27.84	
	CL221-0141-0-01	24	QR/P4-24P-C (01)	55	47	38	
	CL221-0153-9-01	32	QR/P4-32P-C (01)	67.7	59.7	50.7	
	CL221-0211-3-01	40	QR/P4-40P-C (01)	77.86	69.86	60.86	

Female Housing

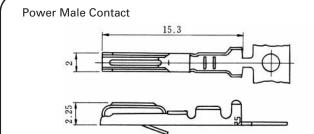




С	RoHS
17.68	
22.8	
27.84	
38	
50.7	
60.86	
	17.68 22.8 27.84 38 50.7

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

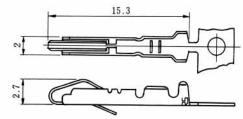
Contact



Selective gold plated with nickel under plating

			_	-	
Applicable Wire	HRS No.	Part No.	Туре	Packing	RoHS
AWG#20~24		QR/P1-PC2B-121 (12)	Loose contact	100pin	
A W G#20* 24	CL221-0119-0-12	QR/P1-PC2B-221 (12)	Chain contact	5,000pin	

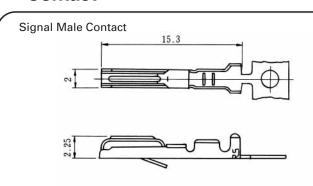
Power Female Contact



Selective gold plated with nickel under plating

Applicable Wire	HRS No.	Part No.	Туре	Packing	RoHS
AWG#20~24		QR/P1-SC2B-121 (12)	Loose contact	100pin	
A W G#20* 24		QR/P1-SC2B-221 (12)	Chain contact	5,000pin	

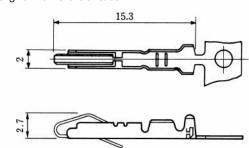
Contact



Partly gold plated over nickel plating

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

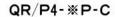
Signal Female Contact

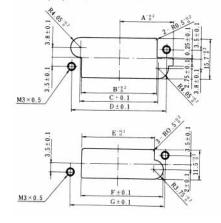


Partly gold plated over nickel plating

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



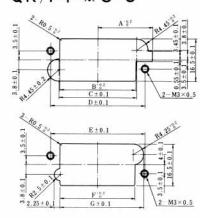


No. of pi	n	8pin	12pin	16pin	24pin	32pin	40pin
	Α	15.87	18.45	20.97	26.05	32.4	37.48
Rear Mount-	В	19.18	24.3	29.34	39.5	52.2	62.36
ing	С	20.18	25.3	30.34	40.5	53.2	63.36
8	D	26.68	31.8	36.84	47	59.7	69.86
Front	Е	18.18	23.3	28.34	38.5	51.2	61.36
Mount-	F	21.68	26.8	31.84	42	54.7	64.86
ing	G	26.68	31.8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

HS.

STH

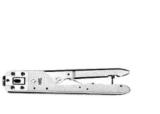
QR/P4- * S-C



No. of pi	n	8pin	12pin	16pin	24pin	32pin	40pin
	Α	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
	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

Rear Mount-	В	19.18	24.3	29.34	39.5	52.2	62.36
Ī	С	20.18	25.3	30.34	40.5	53.2	63.36
D 26.68 31.8 36.84 4	26.68 31.8 36.84 4	31.8 36.84 4	36.84 4	4	7	59.7	69.86
E 18.18 23.3 28.34 38.5 51.2 61.36	18.18 23.3 28.34 38.5 51.2 61.36	23.3 28.34 38.5 51.2 61.36	28.34 38.5 51.2 61.36	38.5 51.2 61.36	51.2 61.36	61.36	
F 21.68 26.8 31.84 42 54.7 64.86	21.68 26.8 31.84 42 54.7 64.86	26.8 31.84 42 54.7 64.86	31.84 42 54.7 64.86	42 54.7 64.86	54.7 64.86	64.86	
G 26.68 31.8 36.84 47 59.7 69.86	26.68 31.8 36.84 47 59.7 69.86	31.8 36.84 47 59.7 69.86	36.84 47 59.7 69.86	47 59.7 69.86	59.7 69.86	69.86	

Tooling



Hand Crimp Tool

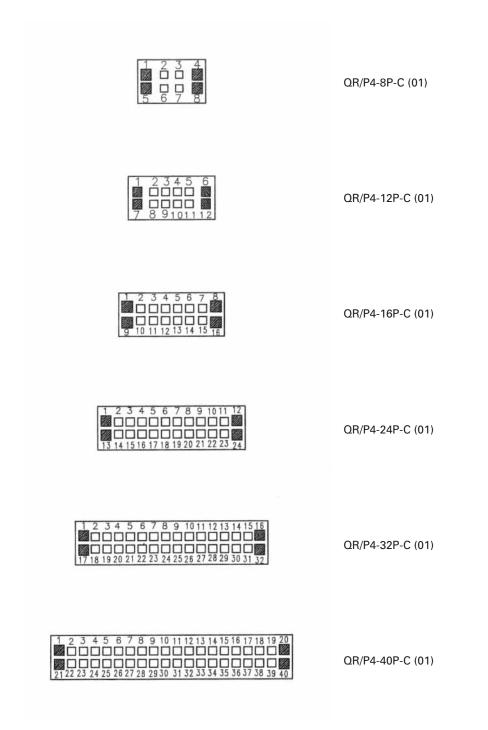
Auto Crimp Machine CM-105 CL901-0005-4

Kind	HRS No.	Part No.	Applicator Contact
Hand Crimp Tool	CL250-0021-3	TC-QR/P1-PC2B	QR/P1-PC2B-121
	CL250-0016-3	TC-QR/P1-PC2A	QR/P1-PC2A-111
	CL250-0023-9	TC-QR/P1-SC2B	QR/P1-SC2B-121
	CL250-0018-9	TC-QR/P1-SC2A	QR/P1-SC2A-111
Auto Crimp Machine Applicator	CL901-2530-5	AP105-QR/P1-2B-2	QR/P1-PC2B-221
			QR/P1-SC2B-221
	CL901-2528-3	AP105-QR/P1-2A-1	QR/P1-PC2A-211
			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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