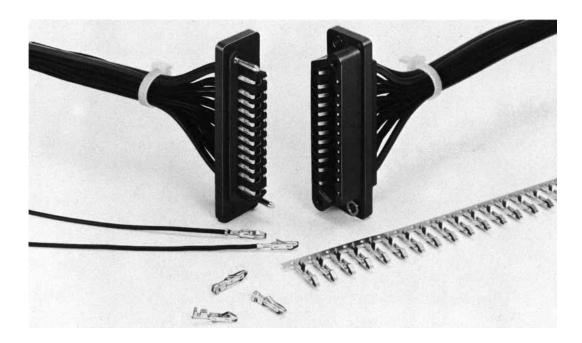
QR/P SERIES PLUG-IN CRIMP CONNECTORS

General

QR/P series connectors have been developed for Plugin Connection Power and Signal Circuits in copier machine or other equipments which impose the connectors repeated insertion and extraction for maintenence work of them Available number of pins are 4, 8, 12, 16, and 24. Wire termination is done by crimping which offers higher reliability, Especially, the unique sexless contact assures soft and smooth coupling operation which is the most appropriate for Plug-in connection by machine itself.



Features

- (1) The selective plating sexless contact is commonly used for plug and receptacle housings.
- (2) As QR/P series are crimp type connectors their housing and contacts are supplied separately. The sexless feature of the contact offers customers higer utilization and easier inventory control.
- (3) The two pairs of contacts at both ends are sequenced for power circuits. They are longer than the others.
- The molding material is UL94V-0 glass-reinforced polyester.
- (4) The Guide Pin is made of steel nickel plated to be strong enough against accidental coupling shock.
- (5) The mount of a receptacle housing is done through Floating Bushes. Thus, they may help to give smoother coupling of connectors by a self-adjusting function.

Applications

Main applications are PPC, Data Communications, Vending Machines, Instrument, Automatic Equipment, etc.

Material and Finish

QR/P Main Rating				
Contact resistance		10 Ω or less at DC1A		
Insulation resistance		5000M Ω or less at DC 500V		
Withstand voltage (1 min.)	Power	AC 3000V		
	Signal	AC 1000V		
Current rating	Power	13A Max (AWG#14 use)		
	Signal	7A Max (AWG#14 use)		
Voltage rating	Power	AC 600V		
	Signal	AC 250V		

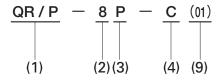
Material					
Insulator	PBT*	Blue			
Contact	Phosphor bronze	Selective gold over Nickel Plating			

%UL94V-0

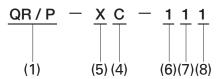
Ratings authorized by QR/P safety standards						
Standard safety		UL	CSA	TÜV		
operating temperature		-10~+60°C				
Rated voltage	Power	AC120V	AC125V	AC250V, DC300V		
	Signal	AC120V		AC125V, DC150V		
Rated current	AWG#14	10A	_	10.4		
	AWG#16		5A	10A		
	AWG#18		3A	5A		
	AWG#20	3A	2A	2.5A		
	AWG#22		1A	1A		
	AWG#24					

Ordering Information

▲ Connector Unit

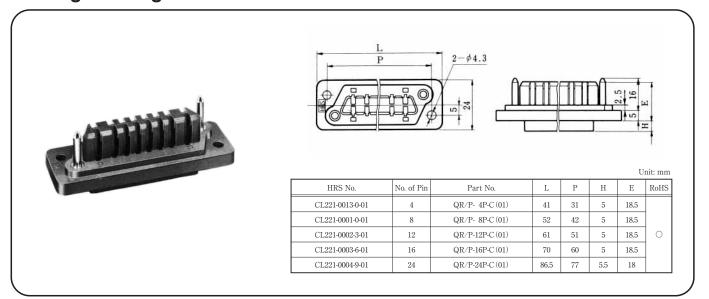


▲ Contact

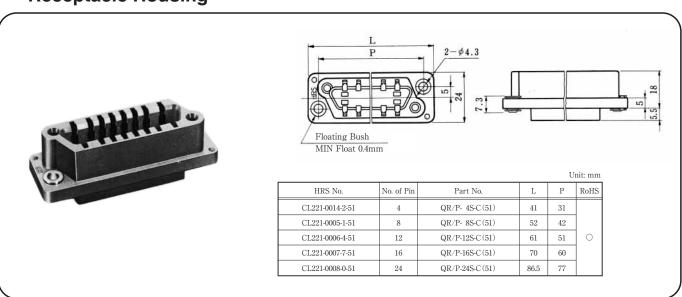


- (1) Series Name
- (2) No.of Pin 4, 8, 12, 16, 24
- (3) Type of Housing
 - P: Plug Housing
 - S: Receptacle Housing
- (4) Type of Termination
 - C: Crimping
- (5) Sexless Contact
- (6) Contact Type
 - 1: Loose Contact
 - 2: Chain Contact
- (7) Applicable Wire
 - 1: AWG # 14 # 16
 - 2: AWG # 18 # 24
- (8) Finish
 - 1: Selective Gold over Nickel plating
- (9) UL, CSA, TÜV Approved Spec.

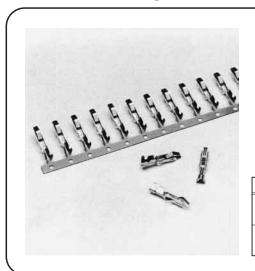
Plug Housing

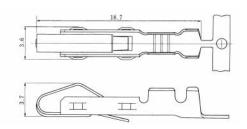


Receptacle Housing



Sexless Crimp Contact



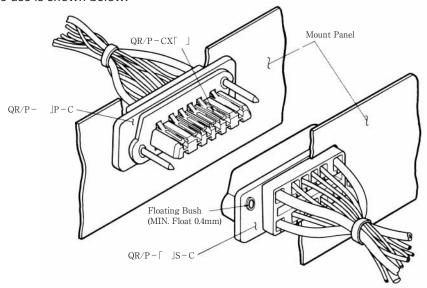


Unit: mm

Applicable Wire	HRS No.	Part No.	Туре	Plating	RoHS
AWG#14-16	CL221-0009-2-12	QR/P-XC-111 (12)	Loose		
	CL221-0011-4-12	QR/P-XC-211 (12)	Chain	Selective gold	
AWG#18-24	CL221-0010-1-12	QR/P-XC-121 (12)	Loose	over Nickel Plating	
	CL221-0012-7-12	QR/P-XC-221 (12)	Chain		

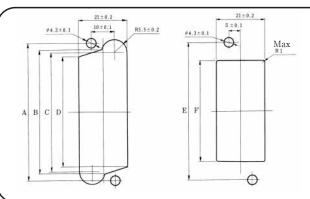
How To Use Connectors

QR/P series connectors are primarily used in Plug-in Connection and the use is shown below.



Note: Determine the combinations with the panel so that the mating clearance between the P side and S side is 2 mm or less.

Recommended Mounting Hole (for S Insulation Case)



No. of p	in	4 pin	8 pin	12 pin	16 pin	24 pin
Rear Mount- ing	Α	31	42	51	60	70
	В	26.5	37.5	46.5	55.5	73.5
	С	23	34	43	52	70
	D	18.5	29.5	38.5	47.5	65.5
Front Mount- ing	Е	31	42	51	60	77
	F	15.5	26.5	35.5	44.5	62.5

Note: Panel mounting dimensins for the P insulation case are symmetrical with request to the vertical axis, in relation to the S insulation case.

Tools

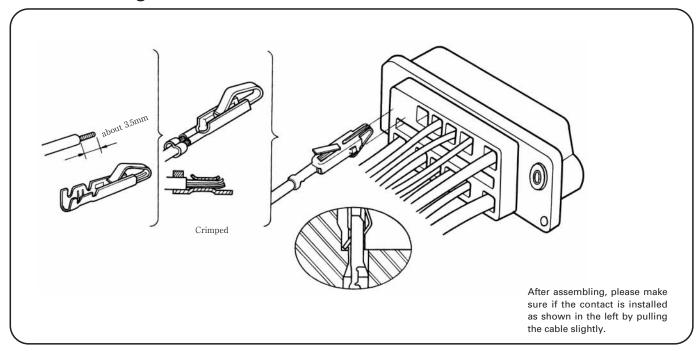
Item	HRS No.	Part No.	Applicable Contact	Applicable Cable
Hand Crimp Tool	CL250-0027-0	TC-2100-111	QR/P-XC-111	AWG#14-#16
	CL250-0028-2	TC-2100-121	QR/P-XC-121	AWG#18 - #24
Applicator	CL901-2531-8	AP105-QR/P-XC-221	QR/P-XC-221	AWG#18 - #24
Contact Extraction Tool	CL250-0009-8	TC-2100-21		





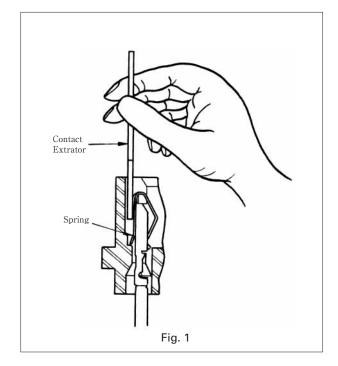


Assembling Procedure

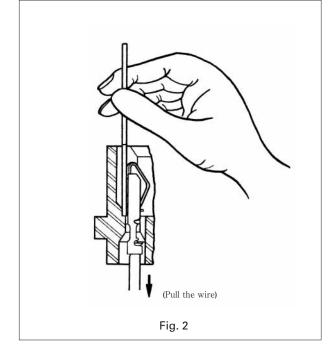


Procedure for Contact Extraction

In case of extracting a contact from the housing in insertion error or in circuit change, follow the steps as shown below.



- Hold the Contact Extractor, placing the tip of the Extractor on the tip of a contact, then insert it between the contact and the housing, following to the Fig. 1.
- When the tip of the Extractor comes into contact with a stepped part in the housing, the spring will come off from the stepped part with a snap which is felt. Then, extract the contact by pulling the wire.



- 3. Above Fig. 1 and Fig. 2 show how to extract a contact from socket housing. The same procedure can be employed to extract a contact from pin housing.
- 4. When the extracted contact is installed again in the housing, do not forget to raise up the contact spring to the original position.

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