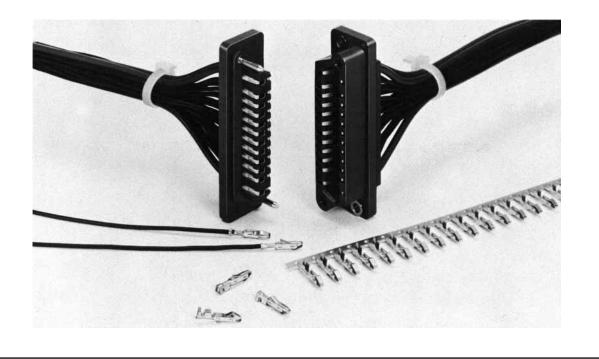
OR/P SERIES PLUG-IN CRIMP CONNECTORS

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

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

	Material	
Insulator	PBT*	Blue
Contact	Phosphor bronze	Selective gold over Nickel Plating
		*UL94V-0

	Ratings auth	orized by Q	QR/P safety	v standards
Standa	urd safety	UL	CSA	TÜV
-	erating perature		-10~	+ 60°C
Rated	Power	AC120V	AC125V	AC250V, DC300V
voltage	Signal	AC120V	AC125V	AC125V, DC150V
	AWG#14	10A		10.4
	AWG#16	10A	5A	10A
Rated	AWG#18		3A	5A
current	AWG#20	3A	2A	2.5A
	AWG#22	ЪА	1A	1.4
	AWG#24		IA	1A

Ordering Information

Connector l	Jnit
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<u>QR / P</u>	<u>– 8 P</u> –	- <u>C</u> (01)
(1)	(2)(3)	(4) (9)

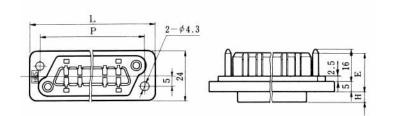
Contact

QR/P	_ <u>x</u> c	-111
(1)	(5) (4)	(6)(7)(8)

- (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





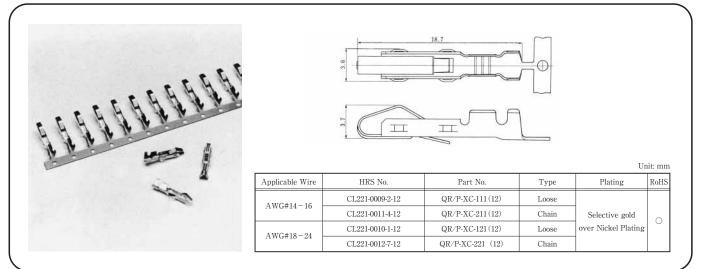
nit: mm	Uı						
RoHS	E	Н	Р	L	Part No.	No. of Pin	HRS No.
	18.5	5	31	41	QR/P- 4P-C (01)	4	CL221-0013-0-01
	18.5	5	42	52	QR/P-8P-C(01)	8	CL221-0001-0-01
0	18.5	5	51	61	QR/P-12P-C (01)	12	CL221-0002-3-01
	18.5	5	60	70	QR/P-16P-C (01)	16	CL221-0003-6-01
	18	5.5	77	86.5	QR/P-24P-C (01)	24	CL221-0004-9-01

Receptacle Housing



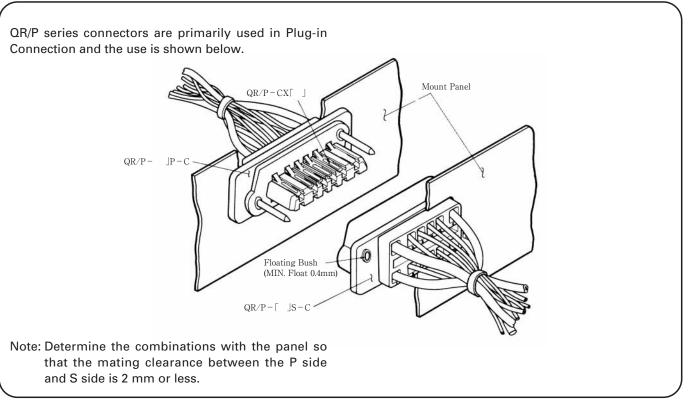
Floating Bush MIN Float 0.4mr			-	U	nit: mm	5.5 18
HRS No.	No. of Pin	Part No.	L	Р	RoHS	
CL221-0014-2-51	4	QR/P- 4S-C (51)	41	31		
CL221-0005-1-51	8	QR/P- 8S-C (51)	52	42		
CL221-0006-4-51	12	QR/P-12S-C (51)	61	51	0	
CL221-0007-7-51	16	QR/P-16S-C (51)	70	60		
CL221-0008-0-51	24	QR/P-24S-C (51)	86.5	77		

Sexless Crimp Contact

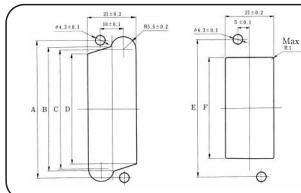


Note* Loose-piece terminals are available in packs. Each pack contains 100 terminals. Strip terminals are available in reels. Each reel contains QR/P-XC-221 Pin 3,500. QR/P-XC-221 Pin 5,000 terminals.

How To Use Connectors



Recommended Mounting Hole (for S Insulation Case)



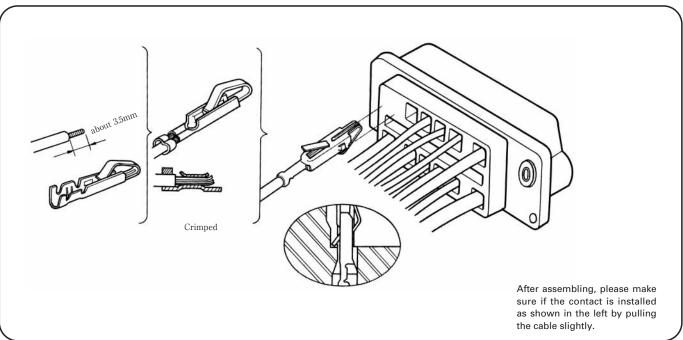
No. of p	in	4 pin	8 pin	12 pin	16 pin	24 pin
	А	31	42	51	60	70
Rear	В	26.5	37.5	46.5	55.5	73.5
Mount- ing	С	23	34	43	52	70
8	D	18.5	29.5	38.5	47.5	65.5
Front	Е	31	42	51	60	77
Mount- ing	F	15.5	26.5	35.5	44.5	62.5

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

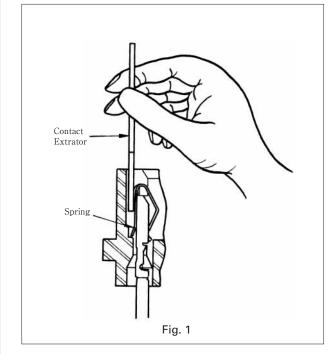
Item	HRS No.	Part No.	Applicable Contact	Applicable Cable	
Hand Crimp	CL250-0027-0	TC-2100-111	QR/P-XC-111	AWG#14-#16	HS
Tool	CL250-0028-2	TC-2100-121	QR/P-XC-121	AWG#18-#24	
Applicator	CL901-2531-8	AP105-QR/P-XC-221	QR/P-XC-221	AWG#18-#24	
Contact Extraction Tool	CL250-0009-8	TC-2100-21			
					SH
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

Assembling Procedure

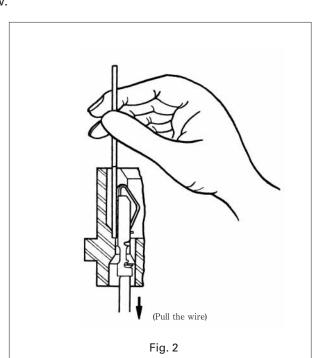


Procedure for Contact Extraction

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



- 1. 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.
- 2. 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.



- 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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