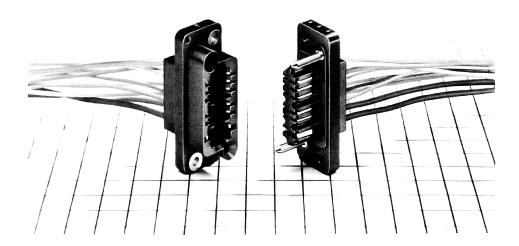
QR/P1 SERIES CONNECTOR

Small Rectangular Multi-electrode Solderless Connectors for Racks and Panels

General

QR/P series connectors are small and compact high density versions of original OR/P series. Available in 8,

12, 16, 24 and 32 way. Crimps terminals assure positive and reliable termination with minimum labor.



Features

- The coupling mechanism assures stable and reliable contact pressure through point and blade contact, in addition to smooth coupling that is sufficiently capable of dealing with variations in the coupling length specific to the plug-in connection.
- 2. Compact contacts due to separate power contacts from signal contacts.
- One opposed pair (in 12 contacts), 2 pairs (in 8, 16, and 24 contacts), and 3 pairs (in 32 contacts) can be used as power supply contacts. They are spaced
- further apart that the others so as to have enough creeping distance to withstand a high voltage. Fireretardant insulation materials (UL94-0) are used.
- 4. The Guide Pin is made of steel nickel plated to be strong enough against accidental coupling shock.
- The mount of a receptacle housing is done through Floating Bushes. Thus, they may help to give more smooth coupling of connectors by self-adjusting function.

Application

PPC, Transmission and reception equipment, Data Communication, Vending Machine, Measuring Instruments, Automatic Equipment, Switchboards, etc.

How To Use Connectors

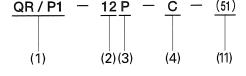
General rating of QR/P1					
Contact resistance	Power unit	$10 \mathrm{m} \ \Omega$ or less at DC1A			
Contact resistance	Signal unit	$10m\ \Omega$ or less at DC1A			
Insulation resistance	5000M Ω higher at DV 500V				
Withstand voltage	Power terminal	AC 1000V			
(for 1 min.)	Signal terminal	AC 500V			
D + 1	Power unit	13Amax (AWG #14 use)			
Rated current	Signal unit	3A			
D 4 1 - 14	Power terminal	AC 250V			
Rated voltage	Signal terminal	AC 125V			

Material					
Insulator	Insulator Polyethylene terephtalate Black				
Terminal	Phosphor bronze	Selective gold plating with nickel underplating			

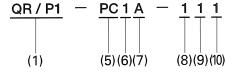
Ratings authorized by QR/P1 safety standards								
Safety standard		UL		CSA		TÜV		
Operating temperature range				−10~+60°C				
Data Jan	Rated voltage		AC120V	AC250V	AC125V	AC250V	AC250, DC300V	
Nated V	ліаде	Signal unit	AC120V	AC250 V	AC125V	AC250 V	AC125, DC150V	
	AWG#14		10A 3.	0.4	10A	3A	10A	
	AWG#16			5A	8A			
	AWG#18		3A	1A	3A	1A	5A	
	AWG#20						2.5A	
Rated	AWG#22							
current	AWG #24	Power supply	2A	1A	2A	1A		
		Signal unit	1A	0.5A	1A	0.5A	1A	
	AWG#26		1.0	0.5A	1A	0.5A		
	AWG#28		1A 0.5A	1A	0.5A			

Ordering Information

▲ Connector unit



▲ Terminal



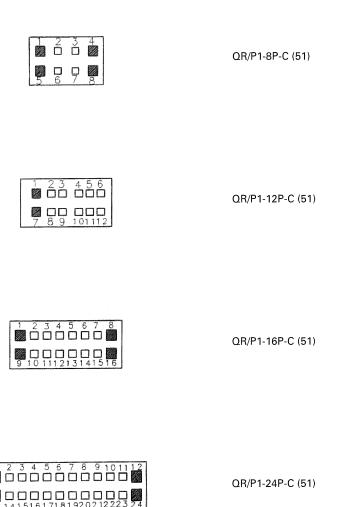
- (1) Series name
- (2) No.of contacts (8, 12, 16, 24, 32)
- (3) Shape of insulator mating part
 - P: Insulator male case
 - S: Insulator female case
- (4) Type of termination
 - C: Crimp terminal
- (5) Male/Female
 - PC: Male crimp terminal
 - SC: Female crimp terminal
- (6) Type
 - 1: Power terminal
 - 2: Signal terminal

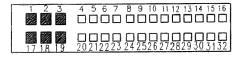
- (7) Crimp barrel size
 - A: For thin wires
 - B: For thick wires
- (8) Shape
 - 1: Loose piece terminal
 - 2: Strip terminal
- (9) Applicable wire
 - 1: Power terminal AWG # 18 # 24 Signal terminal AWG # 24 - # 28
 - 2: Power terminal AWG # 14 # 16 Signal terminal AWG # 20 - # 24
- (10) Surface terminal
 - 1: Selective gold plating with nickel underplating
- (11) Specifications meeting UL, CSA TÜV requirements

Contacts for thick wire Contact Configuration

Male Housing (Viewed from Wiring Side)

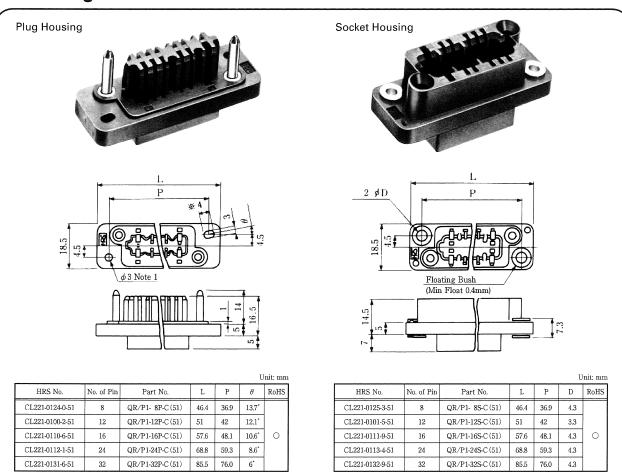
: indicates a contact hole for thick wire





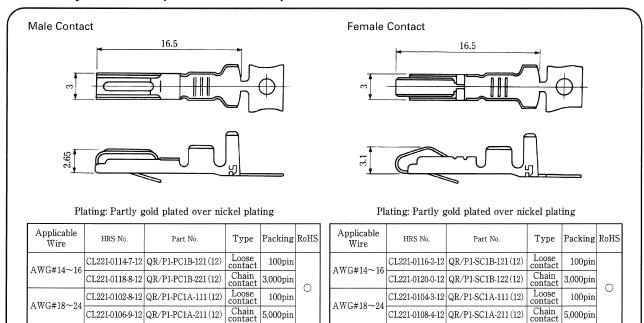
QR/P1-32P-C (51)

Housing

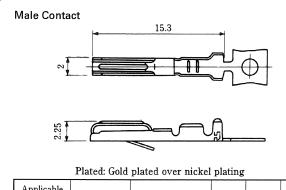


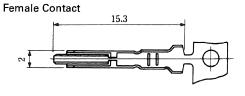
Note: Determine the combinations with the panel so that the mating clearance between the P side and S side is 1.5mm or less.

Crimp Contact (Power Circuit)



Crimp Contact (Signal Circuit)





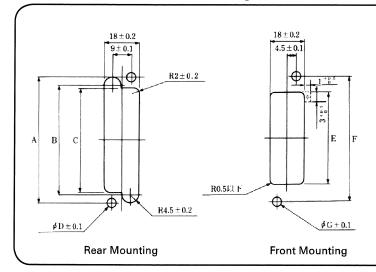


	Applicable Wire	HRS No.	Part No.	Туре	Packing	RoHS
	AWG#20 ~ 24	CL221-0115-0-12	QR/P1-PC2B-121 (12)	Loose contact	100pin	
A W G#20 ~ 24	CL221-0119-0-12	QR/P1-PC2B-221 (12)	Chain contact	3,000pin		
$AWG#24 \sim 28$	CL221-0103-0-12	QR/P1-PC2A-111 (12)	Loose contact	100pin		
	CL221-0107-1-12	QR/P1-PC2A-211(12)	Chain contact	5,000pin		

Plated: Gold plated over nickel plating

Applicable Wire	HRS No.	Part No.	Туре	Packing	RoHS
AWG#20 ~ 24	CL221-0117-5-12	QR/P1-SC2B-121 (12)	Loose contact	100pin	
	CL221-0121-2-12	QR/P1-SC2B-122(12)	Chain contact	3,000pin	
AWG#24 ∼ 28	CL221-0105-6-12	QR/P1-SC2A-111 (12)	Loose contact	100pin	
		QR/P1-SC2A-211 (12)	Chain contact	5,000pin	

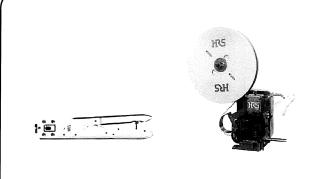
Recommended Mounting Hole



No. of pin		8 Pin	12 Pin	16 Pin	24 Pin	32 Pin
Rear Mount- ing	A	36.9	42	48.1	59.3	76
	В	29.4	34.5	40.6	51.8	68.5
	С	28.4	33.5	39.6	50.8	67.5
	D	4.3	3.3	4.3	4.3	4.3
Front Mount- ing	E	22.4	27.5	33.6	44.8	61
	F	36.9	42	48.1	59.3	76
	G	4.3	3.3	4.3	4.3	4.3

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

Applicable Tools



Hand crimping

Automatic crimping machine CM-105 CL901-0054-4

Туре	HRS No.	Part No.	Applicator terminay
	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
Hand Crimp	CL250-0017-6	TC-QR/P1-SC1A	QR/P1-SC1A-111
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
	CL901-2529-06	AP105-QR/P1-1B-2	QR/P1-PC1B-221
	CL901-2529-00	AF103-QIC/F1-1D-2	QR/P1-SC1B-221
Auto Crimp	CL901-2530-5	AP105-QR/P1-2B-2	QR/P1-PC2B-221
Machine	CL501-2030-0	Ar 100-QIO F 1-2D-2	QR/P1-SC2B-221
Applicator	CL901-2527-0	AP105-QR/P1-1A-1	QR/P1-PC1A-211
Аррисаю	CL901-2521-0	AF103-QR/F1-1A-1	QR/P1-SC1A-211
	CL901-2528-3	AD105 OD (D1 0 A 1	QR/P1-PC2A-211
	CL301-2328-3	AP105-QR/P1-2A-1	QR/P1-SC2A-211
Hand Tool	CL250-0019-1	TC-QR/P1-21	

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