QR/P6 SERIES

QR/P6 SERIES RECTANGULAR MINIATURE MULTI-CONTACT RACK/PANEL CRIMP CONNECTOR

General

The QR/P6 Series are miniaturized versions of the QR/P and QR/P1 series. Rectangular multi-contact rack and panel connectors for plug-in connection.

Available in 6, 12, 16, and 24 contacts for highly efficient and reliable crimp termination.



Features

- Offers smooth insertion/extraction and stable contact pressure through point-blade contact, and has ample allowance for the deviations in contact length specific to plug-in connection.
- (2) Miniaturized by separating power contacts from signal contacts.
- (3) Signal contacts in the housing are located in pitches of 2.54mm. The opposed contacts at one end of the connector are spaced 6.9mm so that they can withstand high voltage. Can be used for power supplies. Uses flame-retardant insulator (UL94-0).
- Miniaturized using guide pins integral with the insulator.
- (5) Ensures smooth insertion and extraction, and designed to be fixed with stepped screws on a panel or rack.
- (6) The female housing is designed to allow the contact part of the female terminal to be below the mating surface, meeting the Finger Test Requirements (complying with UL 1950)
- (7) The connectors of the series have passed UL, CSA and TÜV standard.

Application

PPC, Transmission/Reception equipment, Data Communication, equipment, Vending machines,

Measuring Instruments, Automation equipment, Switch-boards.

Main Specification

	General ratings		Main materials							
Contact	Power terminal	$10m\Omega$ or less at DC1A	Insu	lator	PBT resin Phosphor bronze				Black	
Resistance	Signal terminal	$15.m\Omega$ or less at DC1A	Teri	ninal			ze	Selective Gold plating with nickel underplating		~
Insulation Resistance	$5000 M\Omega$ or less	at DC 500V								
Withstand	Power unit	AC 1000V		* UL94V						V-U
Voltage (for 1 min.)	Signal unit	AC 500V			Q	R/P6 ratings ap	proved by	y safet <u>y</u>	y standards	
	Power terminal	10A	Safety standard		UL	,	CSA $-10 \sim +60^{\circ}C$	ΤÜV		
Rated current	Signal terminal	1A	Operat		temperature range					
		17	Rated volt	Rated voltage Power supply unit				AC 250V		AC250V
Rated voltage	AC 120V		Tutted Voltage		Signal unit				AC125V	
					AWG#14 AWG#16		10A	10A	10.4	
							10/1	1	8A	10A
					L	AWG#18	5A		5A	5A
					AWG#20		3A	3A 3A		2.5A
			Rated curr	ent		AWG#22	ЪA		JA JA	1A
				A	WG	Power supply	3A		3A	1 A
				#	#24	Signal unit	1A		2A	1A
					AWG#26		1.4		1.4	1A
					AWG#28		1A		1A	

Ordering Information

Connector Unit	QR / P6	$- \frac{12 P}{ } - \frac{C}{ } - \frac{(01)}{ }$ (2)(3) (4) (11)
▲ Contact	QR / P1	$- \frac{PC}{ } \frac{1}{ } \frac{A}{ } - \frac{1}{ } \frac{1}{$
 Series name No.of contacts (6, 12, 16, (3) Shape of insulator mating P: Insulator male case S: Insulator female case Type of termination C: Crimp termination Male/ Female PC: Male crimp terminal SC: Female crimp terminal SC: Female crimp terminal C: Type 1: Power terminal 	part	 (7) Crimp barrel size A: For thin wires B: For thick wires (8) Shape 1: Loose contact 2: Chain contact (9) Applicable wire 1: Power terminal AWG # 18 - # 24 Signal terminal AWG # 24 - # 28 2: Power terminal AWG # 14 - # 16 Signal terminal AWG # 22 (10) Surface terminal 1: Selective gold plating with nickel underplating (11) Specifications meeting UL, CSA TÜV requirements

Housing



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

Contact



Applicable Wire	HRS No.	Part No.	Туре	Packing	RoHS	
CEIOIO		QR/P1-PC1B-121(12)	Loose contact	100pin		
AWG#14~16	CL221-0118-8-12	QR/P1-PC1B-221(12)	Chain contact	3,000pin		
UL10107	CL221-0102-8-12	QR/P1-PC1A-111 (12)	Loose contact	100pin		
AWG#18~24	CL221-0106-9-12	QR/P1-PC1A-211 (12)	Chain contact	5,000pin		



Salactive	gold	plated	i+h	minleal	und comletin a
Selective	goia	plateu	with	mekei	underplating

Applicable Wire	HRS No.	Part No.	Туре	Packing	RoHS
UL1015		QR/P1-SC1B-121(12)	Loose contact	100pin	
AWG#14~16	CL221-0120-0-12	QR/P1-SC1B-122(12)	Chain contact	3,000pin	
UL10107	CL221-0104-3-12	QR/P1-SC1A-111 (12)	Loose contact	100pin	
AWG#18~24	CL221-0108-4-12	QR/P1-SC1A-211 (12)	Chain contact	5,000pin	

Contact



Panel Mounting Dimensions (for Cases with P Insulation)



					Unit: mm
No. of pin		8 Pin	12 Pin	16 Pin	24 Pin
	А	14.87	19.27	21.85	26.95
Mounting on	В	17.17	25.97	31.18	41.34
panel inside	С	18.17	26.97	32.05	42.21
	D	24.67	33.47	38.55	48.71
	Е	16.37	25.17	30.25	40.41
Mounting on panel outside	F	19.87	28.67	33.75	43.91
puner outbrac	G	24.67	33.47	38.55	48.71

Applicable Tools



Contacts for thick wire Contact Configuration

Male Housing (Viewed from Wiring Side)

: indicates a contact hole for thick wire



QR/P6-6P-C (01)



QR/P6-16P-C (01)

QR/P6-12P-C (01)



QR/P6-24P-C (01)

1	2	3	4	5	6	7	8	9	10	11	12
13	П		П	П	П						
17	14	15	16	17	18	19	20	21	22	23	24

QR/P1-32P-C (01)