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

- (1) 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).
- (4) 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	of QR/P6			
Contact	Power terminal	$10m\Omega$ or less at DC1A			
Resistance	Signal terminal	$15.m\Omega$ or less at DC1A			
Insulation Resistance	$5000 M \Omega$ or less	at DC 500V			
Withstand	Power unit	AC 1000V			
Voltage (for 1 min.)	Signal unit	AC 500V			
D . 1	Power terminal	10A			
Rated current	Signal terminal	1A		0	
Rated voltage	AC 120V			Rated	
			-	Rated	

	Main materials						
Insu	sulator PBT resin Black						
Ter	minal	Phosphor bro	nze	ze Selective Gold plating with nickel underplating			
					*UL94	V-0	
		QR/P6 ratings a	pproved	by safet	y standards		
	Safety	v standard	U	JL	CSA	TÜV	
Operating temperature range					$-10 \sim +60^{\circ}$ C		
Rated voltage		Power supply unit	AC 250V		AC250V		
Rated voi	tage	Signal unit	AC 250V		AC125V		
		AWG#14	1(0A	10A	10.4	
		AWG#16		JA	8A	10A	
		AWG#18	5	бA	5A	5A	
	AWG#20 AWG#22		2	3A	3A	2.5A	
Rated current] 3	ЪА	ЪА	1A	
		AWG Power supply	3	BA	3A	1.4	
		#24 Signal unit	1	А	2A	1A	
		AWG#26	1	А	1.4	1A	
		AWG#28		A	1A		

Ordering Information

▲ Connector Unit	$\frac{QR / P6}{\begin{vmatrix} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$
▲ Contact	$\frac{QR/P1}{ } = \frac{PC}{ } \frac{1}{A} = \frac{1}{ } \frac{1}{ } \frac{1}{ }$ (1) (5)(6)(7) (8)(9)(10)
 Series name No.of contacts (6, 12, 16) Shape of insulator matin P: Insulator male case S: Insulator female case Type of termination C: Crimp termination Male/Female PC: Male crimp terminat SC: Female crimp terminat SC: Female crimp terminat Type 1: Power terminat Signal terminat 	part 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

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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
		QR/P1-PC1B-121(12)	Loose contact	100pin	
AWG#14~16	CL0221-0118-8-12	QR/P1-PC1B-221(12)	Chain contact	3,000pin	
UL10107	CL0221-0102-8-12	QR/P1-PC1A-111(12)	Loose contact	100pin	0
AWG#18~24	CL0221-0106-9-12	QR/P1-PC1A-211(12)	Chain contact	5,000pin	



Selective gold plated	with nickel underplating
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Applicable Wire	HRS No.	Part No.	Туре	Packing	RoHS
UL1015		QR/P1-SC1B-121(12)	Loose contact	100pin	
AWG#14~16	CL0221-0120-0-12	QR/P1-SC1B-122(12)	Chain contact	3,000pin	
UL10107	CL0221-0104-3-12	QR/P1-SC1A-111 (12)	Loose contact	100pin	
AWG#18~24	CL0221-0108-4-12	QR/P1-SC1A-211 (12)	Chain contact	5,000pin	

Contact



Panel Mounting Dimensions (for Cases with P Insulation)



Mounting on panel outside

					Unit: mn
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
Mounting on panel outside	Е	16.37	25.17	30.25	40.41
	F	19.87	28.67	33.75	43.91
	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/P6-24P-C(21)