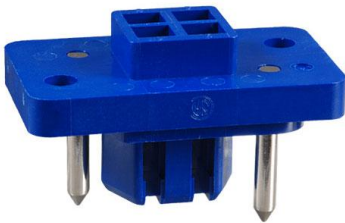


QR/P-4P-C(01) Datasheet

www.digi-electronics.com



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	QR/P-4P-C(01)-DG
Manufacturer	Hirose Electric Co Ltd
Manufacturer Product Number	QR/P-4P-C(01)
Description	CONN PLUG HSG RACK & PNL 4P BLU
Detailed Description	4 Position Housing for Male Pins Connector Blue Panel Mount Rack and Panel

This model QR/P-4P-C(01) is available at DiGi Electronics.

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RFQ Email: Info@DiGi-Electronics.com

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Purchase and inquiry

Manufacturer Product Number:

QR/P-4P-C(01)

Series:

QR/P

Connector Type:

Housing for Male Pins

Number of Positions:

4

Number of Rows:

2

Connector Usage:

Plug

Color:

Blue

Base Product Number:

QR/P

Manufacturer:

Hirose Electric Co Ltd

Product Status:

Obsolete

Connector Style:

Rack and Panel

Pitch:

0.177" (4.50mm)

Mounting Type:

Panel Mount

Features:

Guide Pin

Note:

Contacts Not Included

Environmental & Export classification

RoHS Status:

RoHS Compliant

ECCN:

EAR99

Moisture Sensitivity Level (MSL):

1 (Unlimited)

HTSUS:

8536.69.4030

QR/P Series

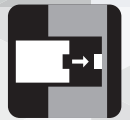
Rectangular, High Pin Count, Rack and Panel Crimp Connector



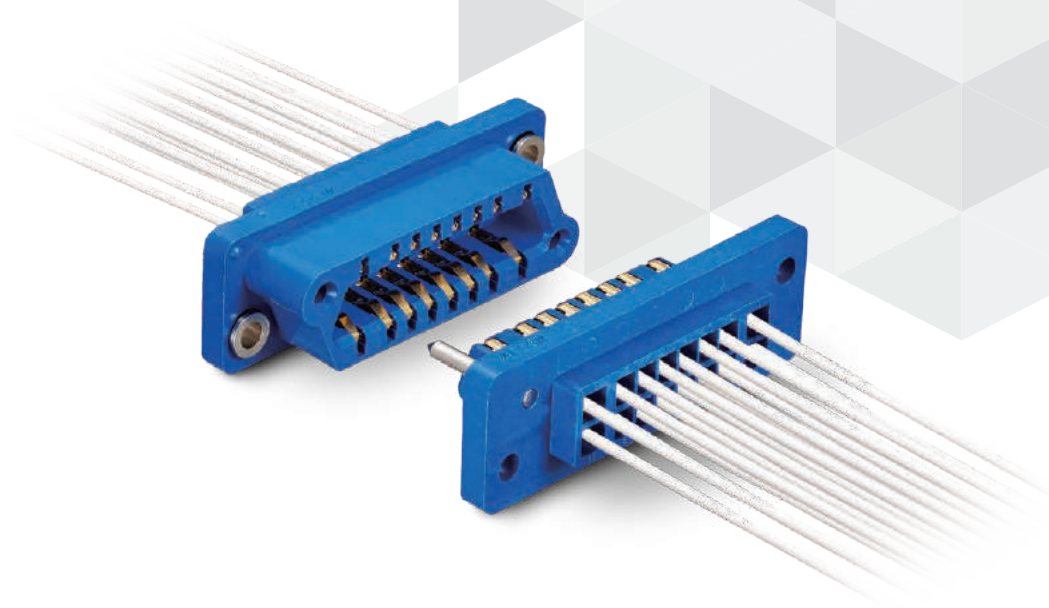
Multiple Position



Floating



Plug-In



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General

The QR/P Series is a plug-in, rectangular, multi-pin count rack and panel connector for the connection and disconnection of power and signal circuits between units and racks of various electronic equipment.

Five different pin counts are available: 4, 8, 12, 16 and 24. Wire connection is performed using crimp termination for easier workability and high reliability.

Hirose's unique ribbon-shaped, male and female dual-purpose contacts assure smooth insertion/removal, making this the ideal rack and panel connector for plug-in connections.

Features

1. Margin in the effective mating length due to the plug-in design.
2. The males and female housings use the same contacts for a reduction in part procurement and management.
3. Floating bushing enables a floating design.
4. UL, CSA, TÜV certified.

Product Specifications

Operating Temperature	-10 to +60°C	
Rated Current	Power	13A Max. (When using 14 AWG)
	Signal	7A Max. (When using 18 AWG)
Rated Voltage	Power	600V AC
	Signal	250V AC
Contact Resistance	10mΩ Max. (1A DC)	
Insulation Resistance	5000MΩ Min. (500V DC)	
Withstand Voltage	Power	3000V AC for 1 min.
	Signal	1000V AC for 1 min.

Safety Standard		UL	CSA		TÜV
Operating Temperature		-10 to +60°C			
Rated Voltage	Power	120V AC	250V AC	600V AC	250V AC, 300V DC
	Signal				125V AC, 150V DC
Rated Current	14 AWG	10A	10A	-	10A
	16 AWG		8A	1A	
	18 AWG	3A	3A	-	5A
	20 AWG		2A		1A
	22 AWG				
	24 AWG				

Materials / Finish

Item	Material	Color/Finish	Remarks
Insulator	PBT	Blue	UL94V-0
Contact	Phosphor Bronze	Partial Gold Plating (Nickel Underplating)	—

Product Number Structure

Refer to the chart below when determining the product specifications from the product number.
 Please select from the product numbers listed in this catalog when placing orders.

Connector Unit

QR/P - 8 P - C (21)

① ② ③ ④ ⑤

Contact

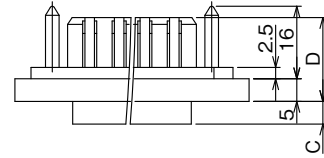
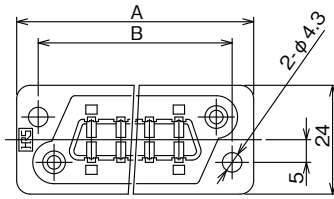
QR/P - X C - 1 1 1

① ⑤ ④ ⑥ ⑦ ⑧

① Series Name	QR/P	⑥ Contact Type	1 : Loose Piece Contact 2 : Reel Contact
② No. of Pos.	4, 8, 12, 16, 24	⑦ Applicable Cable	1 : 14 to 16 AWG 2 : 18 to 24 AWG
③ Insulator Gender	P : Male Insulation Case S : Female Insulation Case	⑧ Surface Treatment	1 : Partial Gold Plating (Nickel Underplating)
④ Contact Connection Method	C : Crimping	⑨ Specification	(21) : UL, CSA, TÜV
⑤ Contact Type	X : Male and Female Dual-purpose Contact		

Housing

Male Housing

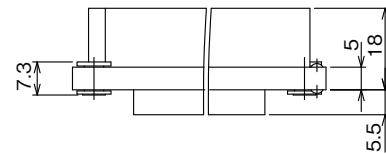
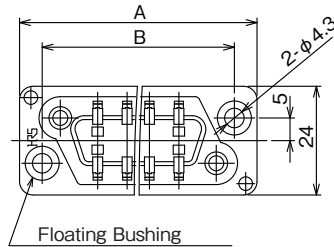


Unit : mm

Part No.	HRS No.	No. of Pos.	A	B	C	D	Purchase Unit
QR/P-4P-C(21)	CL0221-0013-0-21	4	41.0	31.0	5.0	18.5	30pcs per bag
QR/P-8P-C(21)	CL0221-0001-0-21	8	52.0	42.0			
QR/P-12P-C(21)	CL0221-0002-3-21	12	61.0	51.0			
QR/P-16P-C(21)	CL0221-0003-6-21	16	70.0	60.0			
QR/P-24P-C(21)	CL0221-0004-9-21	24	86.5	77.0	5.5	18.0	20pcs per bag

Note : For 14-16 AWG compatible contacts, only 4 can be inserted (both sides). All contacts can be inserted for 4pos.

Female Housing



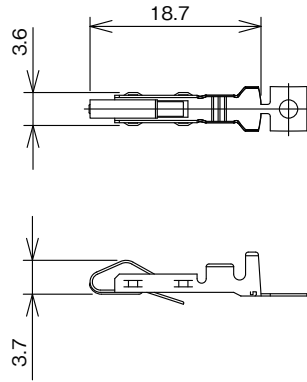
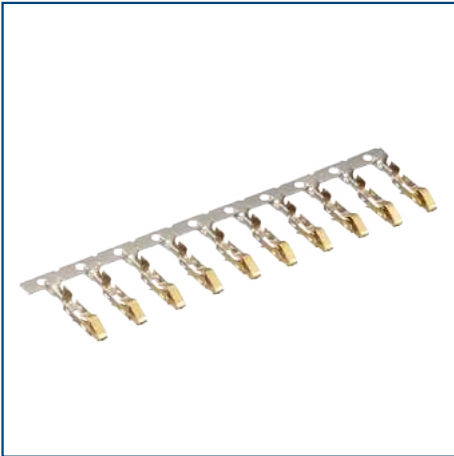
(Floats 0.4mm Max. in Respect to Center)

Unit : mm

Part No.	HRS No.	No. of Pos.	A	B	Purchase Unit
QR/P-4S-C(21)	CL0221-0014-2-21	4	41.0	31.0	30pcs per bag
QR/P-8S-C(21)	CL0221-0005-1-21	8	52.0	42.0	
QR/P-12S-C(21)	CL0221-0006-4-21	12	61.0	51.0	
QR/P-16S-C(21)	CL0221-0007-7-21	16	70.0	60.0	
QR/P-24S-C(21)	CL0221-0008-0-21	24	86.5	77.0	20pcs per bag

Note : For 14-16 AWG compatible contacts, only 4 can be inserted (both sides). All contacts can be inserted for 4pos.

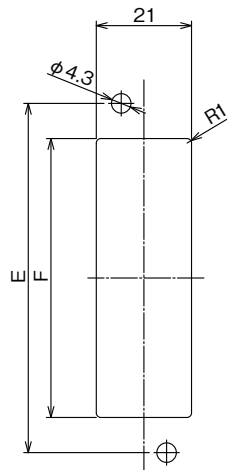
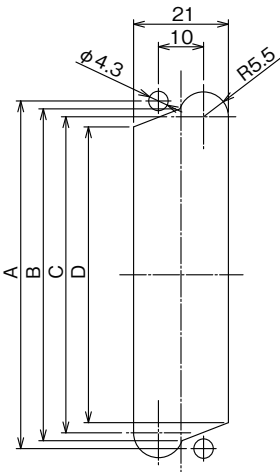
Contact (Male and Female Dual-purpose Contact)



Part No.	HRS No.	Applicable Cable	Type of Packing	Purchase Unit
QR/P-XC-111(12)	CL0221-0009-2-12	14 to 16 AWG	Loose	100pcs per bag
QR/P-XC-211(12)	CL0221-0011-4-12		Reel	3,500pcs per reel
QR/P-XC-121(12)	CL0221-0010-1-12	18 to 24 AWG	Loose	100pcs per bag
QR/P-XC-221(12)	CL0221-0012-7-12		Reel	5,000pcs per reel

Panel Mounting Dimensions

Female Housing (QR/P-#S-C)



Attachment from Panel Rear Side

Attachment from Panel Front Side

Unit : mm

Type		4pos.	8pos.	12pos.	16pos.	24pos.
Rear Mount	A	31.0	42.0	51.0	60.0	77.0
	B	26.5	37.5	46.5	55.5	73.5
	C	23.0	34.0	43.0	52.0	70.0
	D	18.5	29.5	38.5	47.5	65.5
Front Mount	E	31.0	42.0	51.0	60.0	77.0
	F	15.5	26.5	35.5	44.5	62.5

Note : The panel mounting dimensions of the male housing are symmetrical to the female housing in respect to the vertical axis.

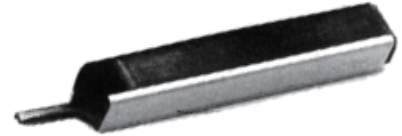
Tools



Manual Crimp Tool



Automatic Crimp Tool
CM-105C



Extraction Tool

Type	Part No.	HRS No.	Applicable Contact
Manual Crimp Tool	TC-2100-111	CL0250-0027-0-00	QR/P-XC-111
	TC-2100-121	CL0250-0028-2-00	QR/P-XC-121
Automatic Crimp Tool Applicator	AP105-QR/P-XC-1	CL0901-2567-5-00	QR/P-XC-211
	AP105-QR/P-XC-2	CL0901-2531-8-00	QR/P-XC-221
Extraction Tool	TC-2100-21	CL0250-0009-8-00	-

While Taking into Consideration

Specifications mentioned in this catalog are reference values.

When considering to order or use this product, please confirm the Drawing and Product Specifications sheets.

Use an appropriate cable when using the connector in combination with cables.

If considering usage of a non-specified cable, please contact your sales representative.

If assembly process is done by jigs & tools which are not identified by Hirose, assurance will not be given.

If considering usage for below mentioned applications, please contact your sales representative.

In cases where the application will demand a high level of reliability, such as automotive, medical instruments, public infrastructure, aerospace/ defense etc. Hirose must review before assurance of reliability can be given.

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