

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information.

All non-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose website RoHS search at www.hirose-connectors.com, or contact your Hirose sales representative.

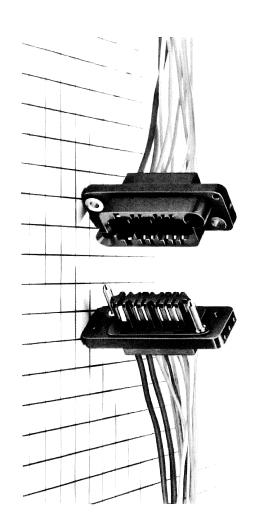
DR/P1 SERIES CONNECTOR

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

- 1. 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.
- Compact contacts due to separate power contacts from signal contacts.
- 3. 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. Fire-retardant 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

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

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How To Use Connectors

ance	General rating of QR/P1 Power unit 10m Signal unit 10m Signal wit 10m Signal wit 10m Power terminal	rating of QR/P1 rer unit 10m Ω or less at DC1A nal unit 10m Ω or less at DC1A 5000M Ω higher at DV 500V terminal AC 1000V
Withstand voltage	Power terminal	AC 1000V
(for 1 min.)	Signal terminal	AC 500V
Dottod oursent	Power unit	13Amax (AWG #14 use)
Mateu Current	Signal unit	3A
Dated waltons	Power terminal	AC 250V
naieu voitage	Signal terminal	AC 125V

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

			2	R		0							
	Rated								Rated vo		peratii	Safet	
AW		#24	AWG	AW	AW	AW	AW	AW			ıg temp range	y stand	
G#28	G#26	Signal unit	Power supply	G#22	G#20	G#18	G#16	G#14	Signal unit	Power supply	erature	lard	Rating
1A		1A	2A	3A		1071	10 A	AC120V			٦	s authoriz	
0.5A		0.5A	1A	1A		3A					JI	ed by QR/	
1A		1A	2A	3A		8A	10A		.		Ω	Ratings authorized by QR/P1 safety standards	
0.5A		0.5A	1A	1A		3A		AC250V		-60°C	SA	standards	
1A			· >		2.5A	5A	1011	10 A	AC125, DC150V	AC250, DC300V		TÜV	
	0.04 +	1A 0.5A 1A	Signal unit 1A 0.5A 1A 0.5A WG#26 1A 0.5A 1A 0.5A	Power supply 2A 1A 2A 1A Signal unit 1A 0.5A 1A 0.5A IG#26 1A 0.5A 1A 0.5A	AWG#22 AWG#22 1A 2A 1A AWG supply #24 1A 0.5A 1A 0.5A #24 Signal unit 1A 0.5A 1A 0.5A AWG#26 1A 0.5A 1A 0.5A	AWG#20 3A 1A 3A 1A AWG#22 Power supply 2A 1A 2A 1A #24 Signal unit 1A 0.5A 1A 0.5A AWG#28 1A 0.5A 1A 0.5A	AWG#18 3A 1A 3A 1A AWG#20 3A 1A 3A 1A AWG#22 2A 1A 2A 1A #24 Signal unit 1A 0.5A 1A 0.5A AWG#28 1A 0.5A 1A 0.5A	AWG#16 AWG#18 8A AWG#18 AWG#20 3A 1A 3A 1A AWG#22 2A 1A 2A 1A #24 Signal unit 1A 0.5A 1A 0.5A AWG#28 1A 0.5A 1A 0.5A	AWG#14 10A 3A 10A 3A AWG#16 10A 3A 8A 3A AWG#18 3A 1A 3A 1A AWG#20 3A 1A 3A 1A AWG#22 3A 1A 2A 1A #24 Signal unit 1A 0.5A 1A 0.5A AWG#26 1A 0.5A 1A 0.5A	AVG#14	voltage Power supply supply unit AC120V AC250V AC125V AC250V AWG#14 10A 3A 10A 3A AWG#16 10A 3A 8A 3A AWG#20 3A 1A 3A 1A AWG#22 3A 1A 3A 1A AWG#21 2A 1A 2A 1A AWG supply wint 2A 1A 0.5A 1A AWG#26 1A 0.5A 1A 0.5A	Ing temperature range -10~+60°C Power supply Power Signal AC120V AC250V AC125V AC250V	sty standard UI CSA Ing temperature range Power supply -10~+60°C Voltage Signal AWG#14 AC120V AC250V AC125V AC250V AWG#16 10A 3A 10A 3A AWG#18 3A 1A 3A 1A AWG#20 3A 1A 3A 1A AWG#21 3A 1A 3A 1A AWG#22 3A 1A 3A 1A AWG#23 1A 2A 1A AWG#24 1A 0.5A 1A AWG#28 1A 0.5A 1A

Ordering Information

Connector unit

QR/P1 Ξ 12 (2)(3)ס <u>4</u> ဂ

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Terminal

QR / P1 Ξ PC 1 (5)(6)(7) \triangleright (8)(9)(10)

- Series name
- No.of contacts (8, 12, 16, 24, 32)
- 3333 Shape of insulator mating part P: Insulator male case
- S: Insulator female case
- <u>4</u> Type of termination
- C: Crimp terminal
- 5 Male/Female
- PC: Male crimp terminal
- <u>6</u> Type

SC: Female crimp terminal

- 2: Signal terminal 1: Power terminal

- (7) Crimp barrel size B: For thick wires A: For thin wires
- 8 Shape
- 1: Loose piece terminal

2: Strip terminal

Applicable wire

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- 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

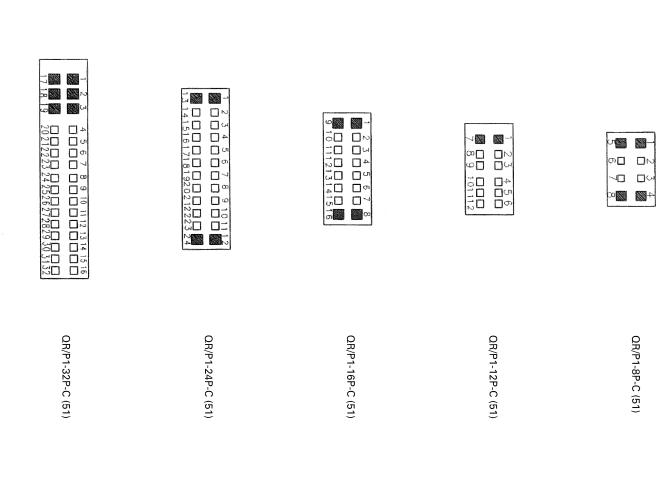
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Contacts for thick wire Contact Configuration

Male Housing (Viewed from Wiring Side)

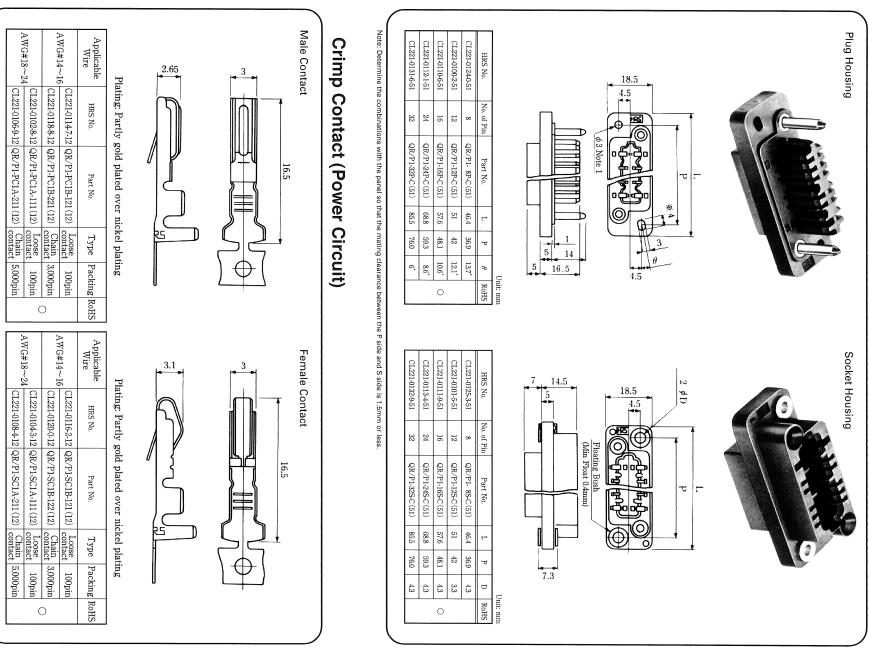
: indicates a contact hole for thick wire



Housing

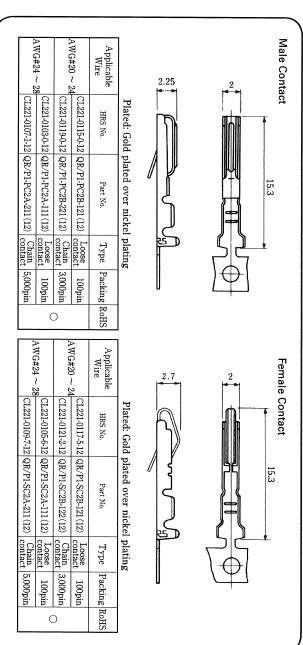
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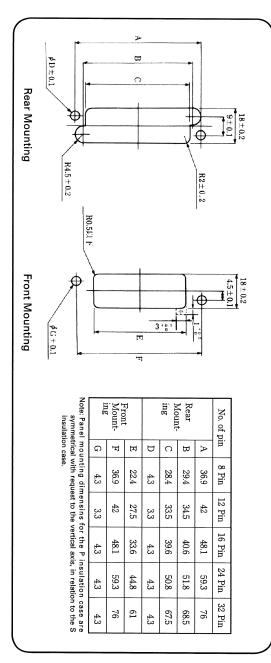


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Crimp Contact (Signal Circuit)



Recommended Mounting Hole



Applicable Tools

