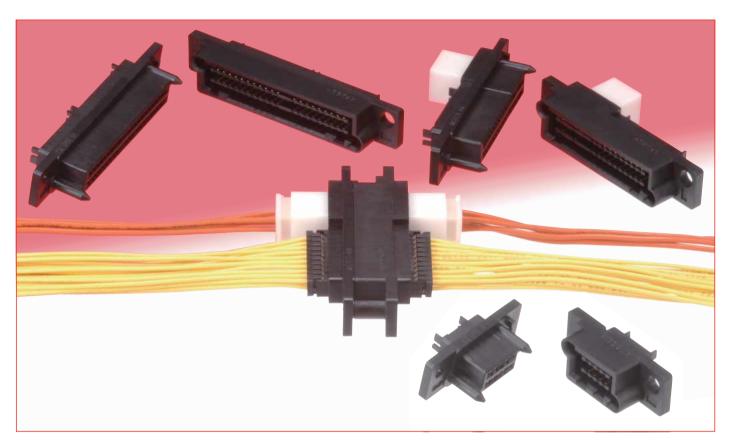
The product information in this catalog is for reference only. Please request the Engineering Drawing for the most current and accurate design information. All non-RoHS products have been discontinued, or will be discontinued soon. Please check the products status on the Hirose website RoHS search at www.hirose-connectors.com, or contact your Hirose sales representative.

Ultra-small Rack/Panel Crimp Connectors

QR/P15 Series



Overview

Expansion of the proven QR/P Series with a separate panelmounted plugs / receptacles connecting with detachable crimp terminated connectors.

Plugs / receptacles can be mounted on the panels and the terminated connectors may be inserted at later time, allowing wire crimp termination to be done away from the equipment.

Available in 8 or 24 positions (with 4 positions for power contacts) and 40 positions.

Features

 Fully terminated connectors (crimp contacts) can be inserted / removed from the panel mounted plugs/receptacles. Polarization assures correct orientation, preventing incorrect insertion of the connectors in the module.

2. Sequenced contact mating (40-position only)

The protection of the circuit is assured by having the 4 contact at each end of the receptacle protrude forward by 0.8 mm, with electrical wipe of 4.0 mm.

Remaining contacts electrical wipe is 3.2 mm.

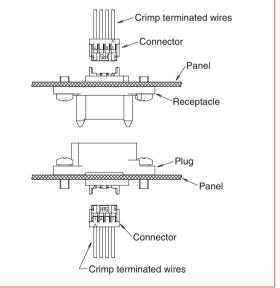
3. Accepts power supply connections (24-position only)

The 24-position connectors incorporate power supply contacts. The power supply connections use an MDF6 Series 4-position connector (3.5 mm pitch, UL and CSA recognized, and can handle 6A a current using AWG #16 conductors.

4. Reliable connections.

Two-point contacts assure highly reliable electrical and mechanical connection.

•Separate connection to panel-mounted connectors



Applications

PPC, data communications equipment, automatic vending machines, measuring instruments and other applications requiring small rack-and-panel connectors. 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-Rol Supplying Seveness dispersioned and the complete content of the products status on the Hirose website RoHS search at www.hirose-connectors.com, or contact your Hirose sales representative.

Specifications

	•			
		Current rating	Signal: 1 A	
	Ratings		Power: 6 A	Operating temperature range:-10°C to +60°C
		Voltage rating	30V AC, DC	

Item	Specification		Conditions	
1. Insulation resistance	1,000 MΩ min.		500 V DC	
2. Withstanding voltage	No flashover or insulation breakdown		500 V AC / 1 minute	
3. Contact resistance	50 mΩ max.		100 mA	
4. Mating/	8 pos.	0.8 N min. 8 N max.	Measured when mated with corresponding connector	
	24 pos.	2.8 N min. 28 N max.		
Unmating forces	40 pos.	4.0 N min. 40 N max.		
E Durobility	Contact resistance: 60 mQ max.		1,000 cycles	
5. Durability Cont			No damage, cracks or parts dislocation.	
6. Vibration	No electrical discontinuity of 10 μ s or longer		Frequency: 10 to 55 Hz, single amplitude of 0.75 mm, 3 directions for 2 hours No damage, cracks or parts dislocation.	
7. Shock	No electrical discontinuity of 10 μ s or longer		Acceleration of 490 m/s ² , 11 ms duration, sine half-wave, 3 cycles in each of the 3 axis No damage, cracks or parts dislocation.	
8. Temperature cycle	Contact resistance: 60 m Ω max. Insulation resistance: 1,000 M Ω min.		No damage, cracks or parts dislocation. Temperature: $-55 \rightarrow +5$ to $35 \rightarrow +85 \rightarrow +5$ to $35 \ ^{\circ}C$ Time: $30 \rightarrow 5 \rightarrow 30 \rightarrow 5$ min. 5 cycles	
9. Humidity	Contact resistance: 60 mΩ max.		No damage, cracks or parts dislocation.	
(Steady state) Insulation resistance: $1,000 \text{ M}\Omega$ min.		resistance: 1,000 MΩ min.	96 hours at 40°C, R.H. 90% to 95%	
10. Hydrogen sulfide Contact resistance: 60mΩ max.		esistance: 60mΩ max.	96 hours at a concentration of 3 ppm	

Materials / Finishes

●Plug

Part	Material	Finish	Remarks
Insulator	PBT	Color: Black	UL94V-0
Contacts	Phosphor bronze	Selective gold plated	
Pin socket	Polyamide	Color: Black, white (Natural)*	UL94V-0
Shoulder Screw	Steel	Nickel plated	

Receptacle

Part	Material	Finish	Remarks
Insulator	PBT	Color: Black	UL94V-0
Contacts	Phosphor bronze	Selective gold plated	
Pin socket	Polyamide	Color: Black, white (Natural)*	UL94V-0

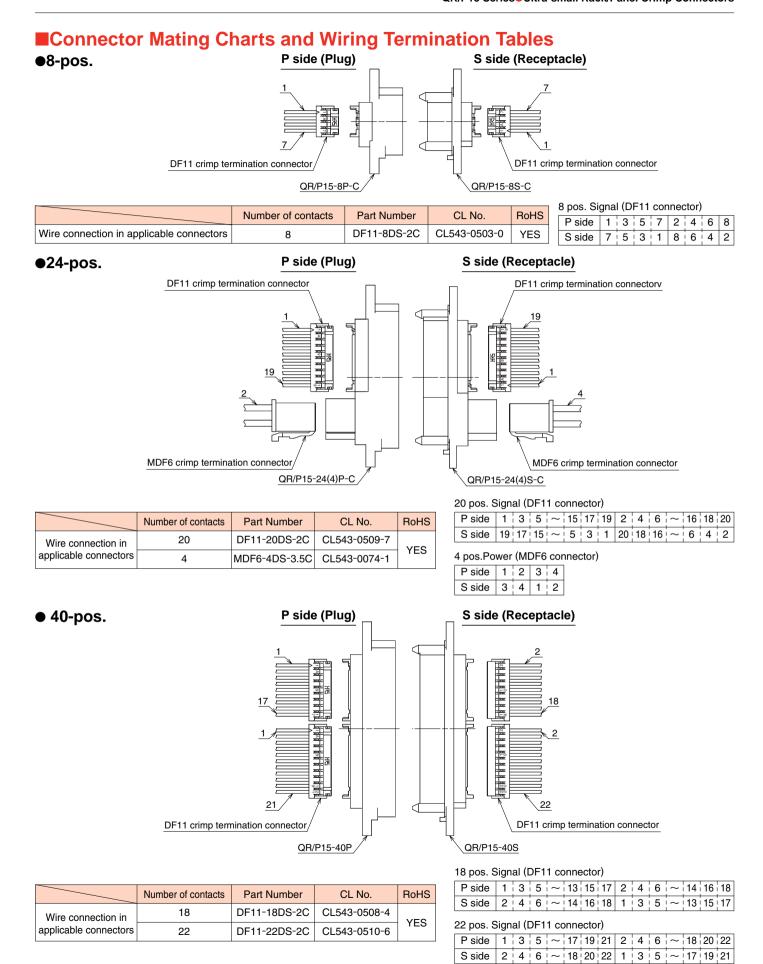
*Insulator bodies for the MDF6 connectors in the 24-position power supply connector will be white.

Ordering information

$\frac{QR / P15}{0} - \frac{24}{2} \frac{(4)}{6} \frac{P}{0} - \frac{C}{5} \frac{(50)}{6}$

1 Series name	: QR/P15
Number of contacts	: 8, 24, 40
8 Number of power contacts	: 4 (24 position connector only)
4 Connector type	P : Plug
	S : Receptacle
Series number	
Specification number	50 : Standard

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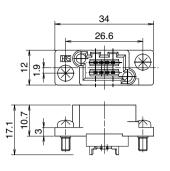


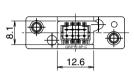
Note: Refer to the Nylon Connector Catalog for details about the wire terminations used in DF 11 and MDF6 connectors.

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Plugs8 pos.





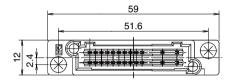


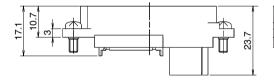
Screw (Supplied not-attached) (0.5mm float)

All dimensions: mm

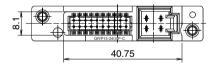








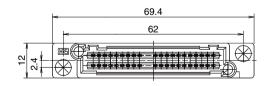
2-M3x0.5x8 Screw (Supplied not-attached) (0.5mm float)



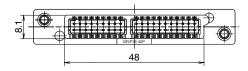
All dimensions: mm

●40 pos.











Screw (Supplied not-attached) (0.5mm float)

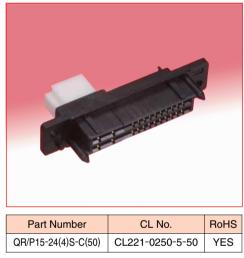
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Receptacles8 pos.

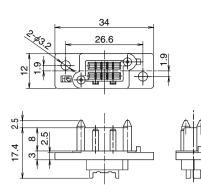


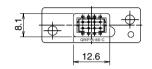
●24 pos.



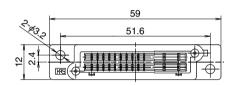
●40 pos.

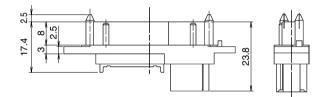


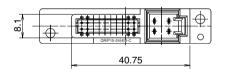




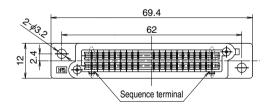
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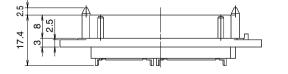


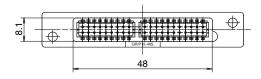




All dimensions: mm

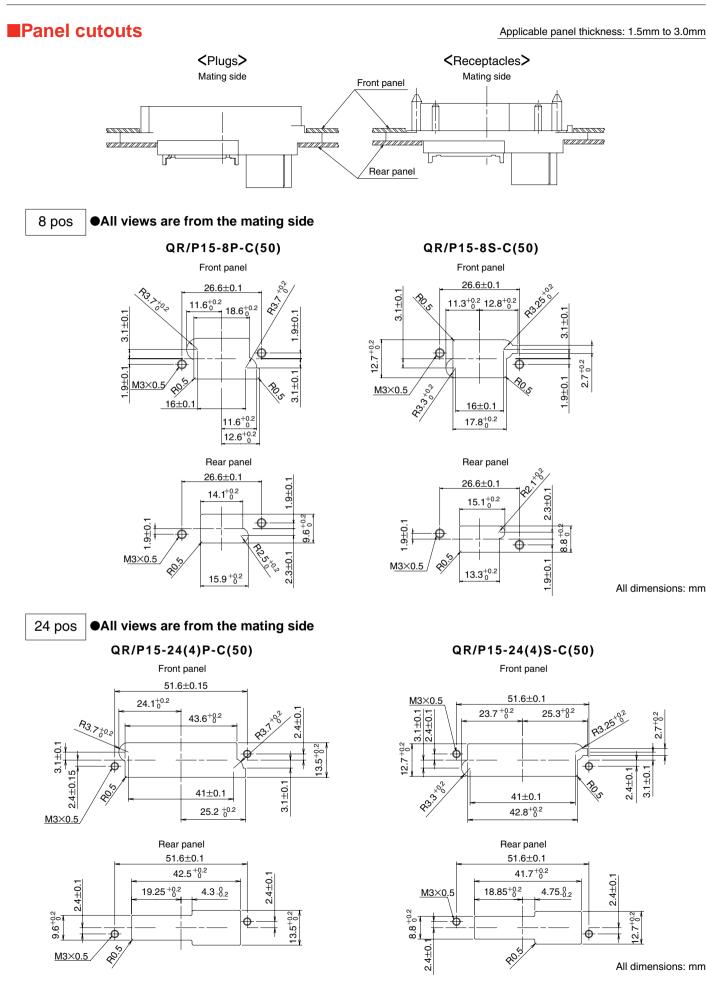






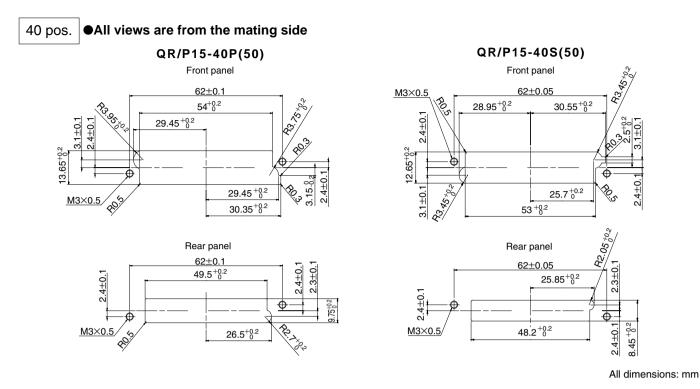
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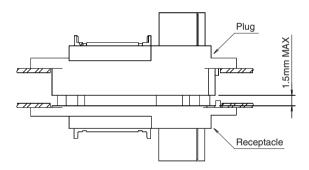
6 **HS**

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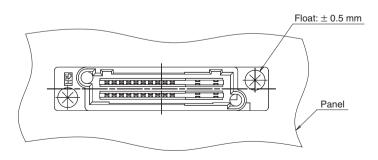
Mated condition (Shown for reference)

Note: The distance between the plug and receptacle when fully mated must be 1.5 mm max. as shown below.



Float – Plug (Shown for reference)

Note: Floating distance for shoulder screw is \pm 0.5 mm.



Mouser Electronics

Authorized Distributor

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<u>QR/P15-8P-C(02)</u> <u>QR/P15-8P-C(50)</u> <u>QR/P15-8P-C(52)</u> <u>QR/P15-8S-C</u> <u>QR/P15-8S-C(50)</u> <u>QR/P15-24(4)P-C(50)</u> QR/P15-24(4)S-C(50) <u>QR/P15-40P</u> <u>QR/P15-40P(50)</u> <u>QR/P15-40S</u> <u>QR/P15-40S(50)</u>