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 produces 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.

Micro-Miniature Interface Connectors For Power Supply/Signaling

MQ172 Series



Fatures

1. Ultra Miniature/Low Profile SMT Design

With dimensions of $3.9mm(H) \ge 6.4mm$ (W) $\ge 6mm$ (D) for the 3 contact type, this series is ideal for today's miniature, lightweight electronic products.

2. Automatic Mounting:

SMT receptacles are packaged in embossed tape and reel for automatic pick and place installation.

3. Reliable contact:

The 2-point contact design and lead construction provide a contact which is resistant to vibration and shocks.

4. High current capacity:

Unique contact design ensures high current capacity (e.g., 3A for 3-position), small as it is.

5. Positive Locking

Use of a snap-lock system provides the sensation of locking at the time of insertion.

6. Wide variety of suitable cables:

A wide selection of cable types can be utilized since the plug is of the soldered wiring type.

Additionally, the plug case and cord bushing are integrated into a one piece body, allowing for easy assembly by simply pressing the case into place after the harness work.

6. Keys for preventing incorrect insertion:

Both 3 and 4-contact types have keys to prevent incorrect insertion.

Applications

Portable remote terminals, portable telephones, PHS(personal handy phone system), Notebook PCs, Electronic measuring instruments, etc.







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Product Specifications

	Rated Current: 3A (Note.1)	Applicable Temperature Range:
RATINGS	Rated Voltage: DC 30V or less	-30℃ - +75℃
	AC 40V or less	

DESCRIPTION	SPECIFICATIONS	REQUIREMENTS	
1. Insulation resistance	1000MΩ or more	Should be measured at DC 100V.	
2. Voltage resistance	No flashover/dielectric Breakdown	Should be powered at AC 250V for 1 minute.	
3. Contact resistance	30mΩ or less	Measured at 10mA.	
4. Vibration	No instantaneous electric	10~55Hz, one-sided amplitude 0.75mm, 3	
resistance	Disconnection of 1µsec or more	directions for 2 hours, respectively	
5. Humidity	Contact resistance: 50mΩ or less	Leave under the condition of 40±2°C in temperat	ture
resistance	Insulation resistance: $10M\Omega$ or more	and of 90-95% in humidity for 96 hours.	
6. Temperature cycle	Contact resistance: 50mΩ or less	(-55℃: 30 minutes→15-35℃:max. 5 minutes→85℃	C:
	Insulation resistance: $1000M\Omega$ or more	30 minutes→ 15-35°C:max. 5 minutes) 5 cycles	
7. Plugging/ unplugging life	Contact resistance: 50mΩ or less	5,000 times	
8. Heat resistance of	No fusion of resin section affecting performance	SMT type reflow: at recommended temp. prof	ile
soldering		manual soldering Temperature of soldering iron:	
		(receptacle and 350°C3 sec.	
		plug)	

(Note.1) For 4-contact type, rated current is 2A, or 3A for optional 2 terminals and 0.5A for other 2 terminals.

(Note.2) Above-stated specifications are typical of this series. For respective formal contract, please refer to "Delivery Specifications".

Material Quality

Parts	Material	Processing	Remarks
Dielectric	Synthetic resin	Black color	UL94V-0
Tarresia al	Phosphor	Engagement areaGold plating of 0.2µm	
Terminal	bronze	Lead sectionSolder-plating	
Cover case(plug)	Synthetic resin	Black color	UL94V-0
Metal fittings(receptacle)	Stainless steel		
Lock case(plug)	Stainless steel		

Ordering information



1	Series name: MQ172	
2	Ø Series configuration symbol: noneunshielded type	
	Xshielded type	
3	Number of contacts: 3, 4	
4	Connector type: Preceptacle	
	Splug	
6	S Key type symbol: A (only for A type)	
6	Packing type: (55)tray-based packing	
	(66)embossed tape packing	
7	Over case type: CVstandard product (color: black)	
8	RoHS compliant : (50)	

Plugs

●3-Position type



Parts No.	HRS No.	RoHS
MQ172-3SA-CV(50)	CL206-0951-7-50	YES









●4-Position type



Harness Tool

Parts No.	HRS No.	RoHS
MQ172X-4SA-CV(50)	CL206-2001-9-50	YES







6.3







(Note.) As the crimp height after crimping depends on cable type, please consult factory about your designated cable.



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Receptacles

Osition type



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Recommended Land Pattern Dimensions Diagram

●3-Position type



●4-Position type



Note.) Mounting of this product to circuit boards is the SMT type.

To provide more adequate fixing, use of adhesive for board-installed area is recommended.

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Embossed Tape Carrier Dimensions Diagam(JIS-C-0806 dependent)

•Carrier Dimensions Diagram



(Note.) The figure above provides the case of a 3 contact type, dimensions shown in such figure are the same as those of a 4 contact type.

Reel Status Diagram



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Recommended Temperature Profile

