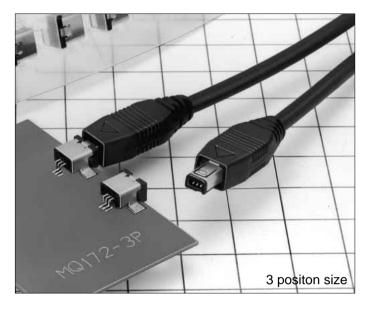
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Micro-Miniature Interface Connectors For Power Supply/Signaling

MQ172 Series





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.

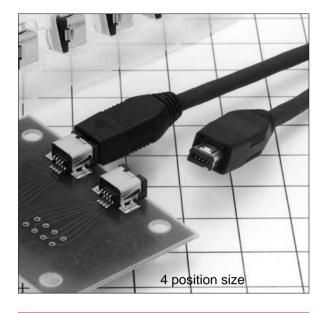
Additionally, the plug case and cord bushing are integrated into a one piece body, allowing for easy assembly by simply pressing the case into place after the harness work.

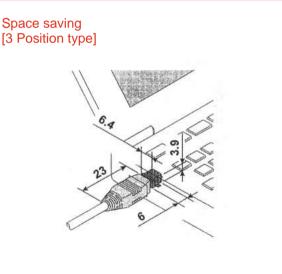
6. Keys for preventing incorrect insertion:

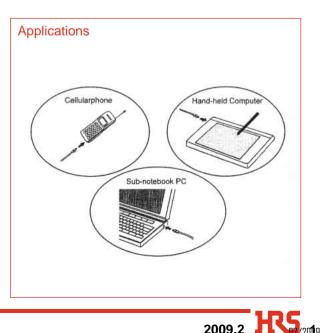
Both 3 and 4-contact types have keys to prevent incorrect insertion.

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 tempera		
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°C: 30 minutes→15-35°C: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: 50m or less	5,000 times		
8. Heat resistance of	No fusion of resin section affecting performance	SMT type reflow: at recommended temp. profile		
soldering		manual soldering Temperature of soldering iron:		
		(receptacle and 350°C3 sec.		
		plug)		

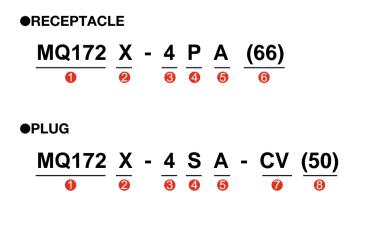
(Note.1) For 4-contact type, rated current is 2A, or 3A for optional 2 terminals and 0.5A for other 2 terminals.

(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
Terminal	Phosphor	Engagement areaGold plating of 0.2µm	
	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

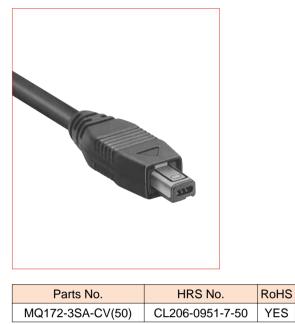


1	Series name: MQ172		
2	Series configuration symbol: noneunshielded type		
	Xshielded type		
3	8 Number of contacts: 3, 4		
4	Connector type: Preceptacle		
	Splug		
6	6 Key type symbol: A (only for A type)		
6	Packing type: (55)tray-based packing		
	(66)embossed tape packing		
1	Cover case type: CVstandard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

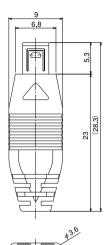
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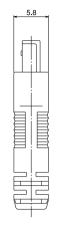
Plugs

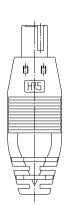
•3-Position type



No.1	3
No.2	



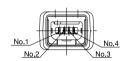


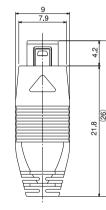


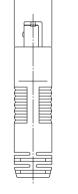
●4-Position type



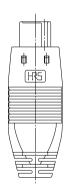
Parts No.	HRS No.	RoHS
MQ172X-4SA-CV(50)	CL206-2001-9-50	YES







6.3





Harness Tool

Tool name	Parts No.	HRS No.	Parts name of adaptive plugs	Adaptive cable
Cable caulking jig	MQ172-3S/CK-MP	CL902-2069-4	MQ172-3SA-CV(50)	Outside diameter: #3.5
	MQ172-4S/CK-MP	CL902-2070-3	MQ172X-4SA-CV(50)	AWG#24-#32

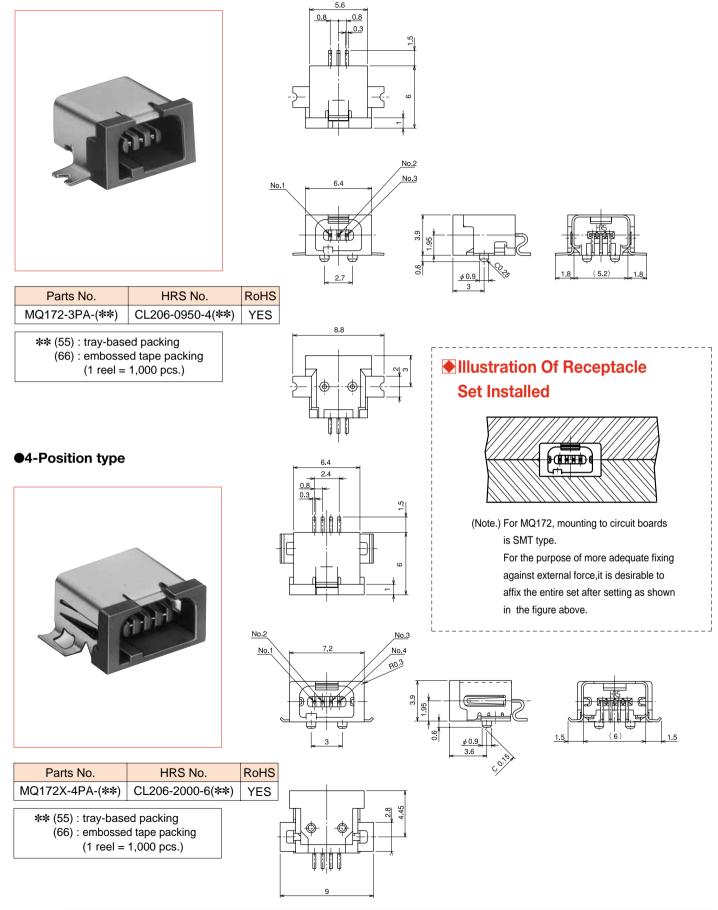
(Note.) As the crimp height after crimping depends on cable type, please consult factory about your designated cable.



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Receptacles

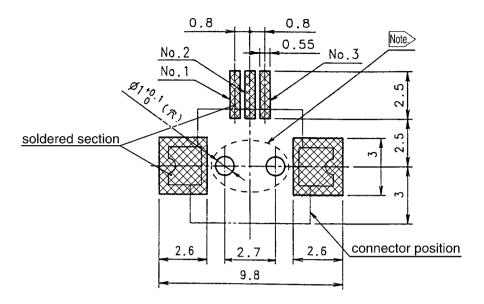
●3-Position type



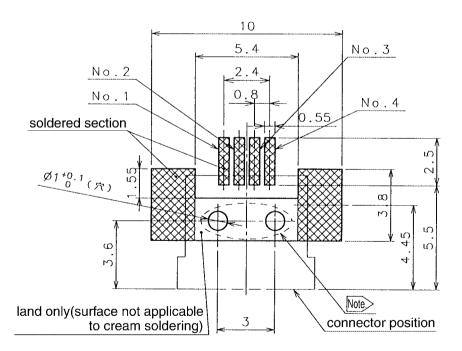
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Recommended Land Pattern Dimensions Diagram

●3-Position type



●4-Position type



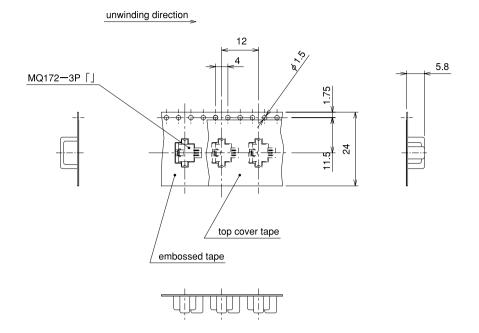
Note.) Mounting of this product to circuit boards is the SMT type.

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

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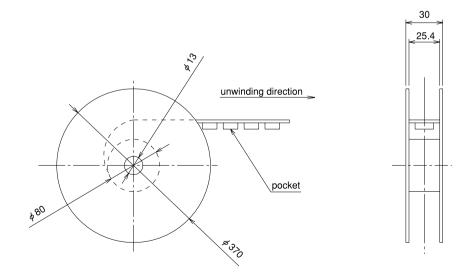
Embossed Tape Carrier Dimensions Diagam(JIS-C-0806 dependent)

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

