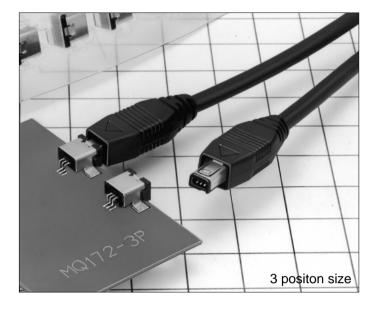
Micro-Miniature Interface Connectors For Power Supply/Signaling

MQ172 Series

NEW



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.

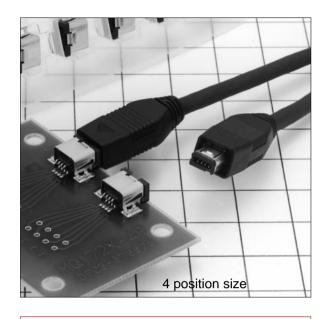
Additionally, the plug case and cord bushing are integrated into a one piece body, allowing for easy assembly by simply pressing the case into place after the harness work.

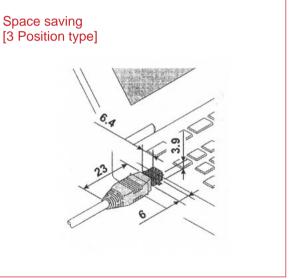
6. Keys for preventing incorrect insertion:

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.







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 measured at DC 1007. Should be powered at AC 250V for 1 minute. Measured at 10mA. 10~55Hz, one-sided amplitude 0.75mm, 3 directions for 2 hours, respectively Leave under the condition of 40±2°C in temperature and of 90-95% in humidity for 96 hours. (-55°C: 30 minutes→15-35°C:max. 5 minutes→85°C: 30 minutes→ 15-35°C:max. 5 minutes) 5 cycles		
3. Contact resistance	30mΩ or less			
4. Vibration	No instantaneous electric			
resistance	Disconnection of 1µsec or more			
5. Humidity	Contact resistance: $50m\Omega$ or less Insulation resistance: $10M\Omega$ or more			
resistance				
6. Temperature cycle	Contact resistance: $50m\Omega$ or less			
	Insulation resistance: 1000MΩ or more			
7. Plugging/ unplugging life	Contact resistance: 50mΩ or less	5,000 times	imes	
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℃3 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

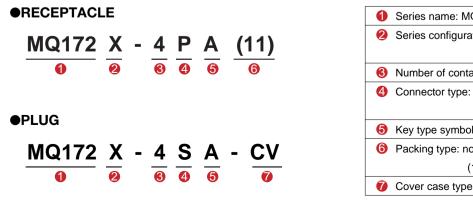
2 IRS

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

Product Number Configuration

This is available for you to determine the product specifications from its format.

When ordering, please select any one among all formats shown in page 3-4 of this catalog.



1 S	Series name: MQ172		
0	Series configuration symbol: noneunshielded type		
	Xshielded type		
8	Sumber of contacts: 3, 4		
4	Connector type: Preceptacle		
	Splug		
6 k	Key type symbol: A (only for A type)		
6 F	Packing type: nonetray-based packing		
	(11)embossed tape packing		
🕜 C	Cover case type: CVstandard product (color: black)		

●3-Position type

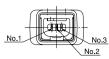


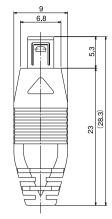
Parts No.	HRS No.
MQ172-3SA-CV	CL206-0951-7

●4-Position type

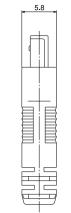


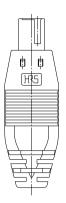
Parts No.	HRS No.	
MQ172X-4SA-CV	CL206-2001-9	

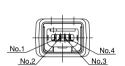


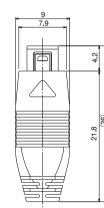




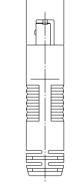




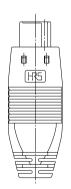




¥3.6



6.3





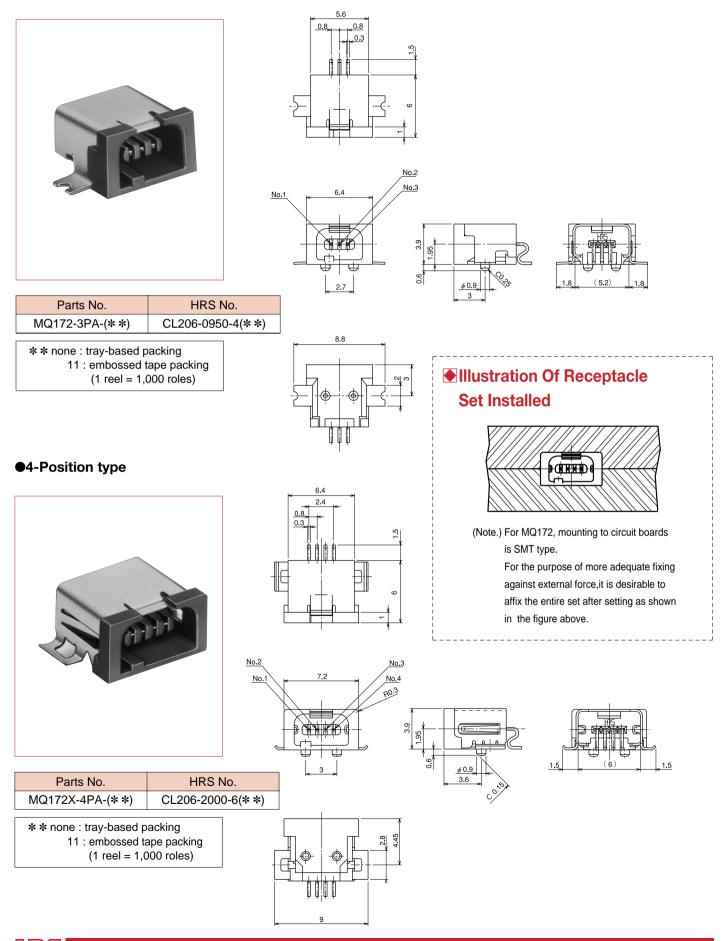
Tool name	Parts No.	HRS No.	Parts name of adaptive plugs	Adaptive cable
Coble coullying in	MQ172-3S/CK-MP	CL902-2069-4	MQ172-3SA-CV	Outside diameter: ø3.5
Cable caulking jig	MQ172-4S/CK-MP	CL902-2070-3	MQ172X-4SA-CV	AWG#24-#32
(Alata) As the series he with the series is a demonder a solution of the term of the term of the invested as his				

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



Receptacles

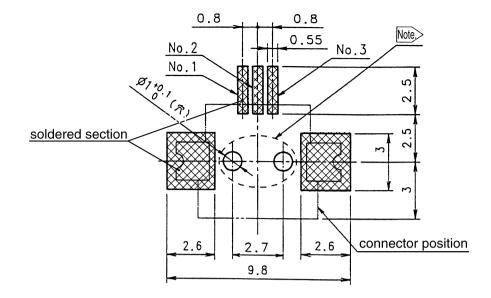
●3-Position type



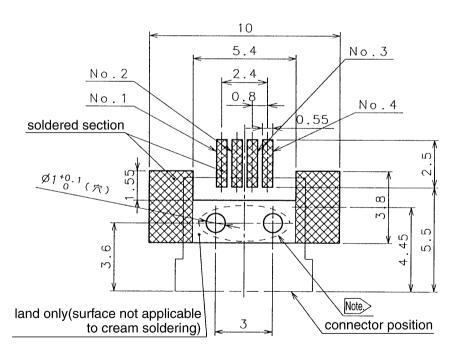
4 IRS

Recommended Land Pattern Dimensions Diagram

●3-Position type



•4-Position type

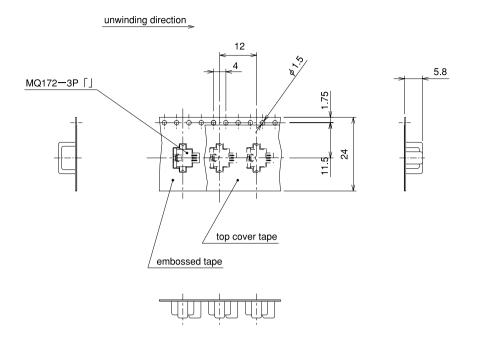


Note.) Mounting of this product to circuit boards is the SMT type.

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

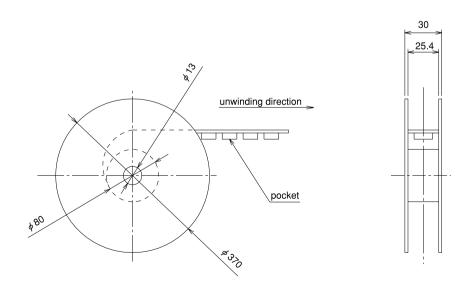
Embossed Tape Carrier Dimensions Diagam(JIS-C-0806 dependent)

•Carrier Dimensions Diagram



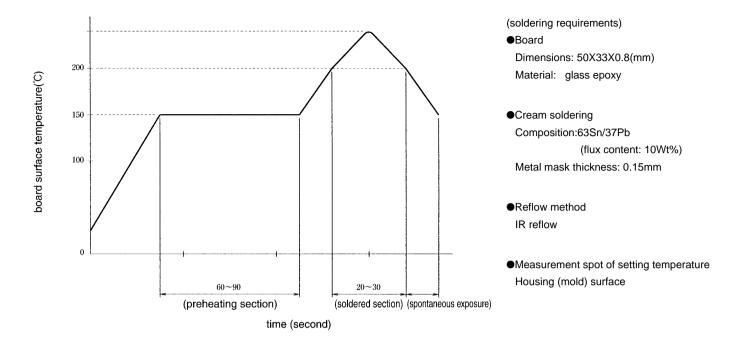
(Note.) The figure above provides the case of a 3 contact type, dimensions shown in such figure are the same as those of a 4 contact type.

Reel Status Diagram





Recommended Temperature Profile



Cleaning Requirements

(1) Organic solvent-based cleaning

Solvent	Normal temp.	Heating
IPA	YES	YES
(Isopropyl Alcohol)	123	125
HCFC	YES	YES
(Hydro-chloro-fluoric carbon)	TES	TE3

(2) Water-based cleaning

When using water-based detergent (e.g., terpene or alkali saponifier,etc.), select appropriate detergent on the basis of those lists describing effects on metals/resins issued by each detergent manufacturer. Further be careful not to leave any moisture.

(3) Cautions on cleaning

In cleaning with organic solvent or water-based detergent, residual flux or detergent on the connector may cause excessive degradation of electrical performance. Check fully that reliable cleaning is provided.





HIROSE ELECTRIC CO., LTD. 5-23,0SAKI 5-CHOME, SHINAGAWA-KU, TOKYO 141-8586, JAPAN PHONE: 3-3491-9741

FAX :3-3493-2933



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