1.Scope

This document specifies the procedures of mating/unmating operation of DF59-*P-2FC, DF59-*P-2SP to DF59-*S-2V (*:Number of positions).

This document contains general guideline and operating suggestions to use this product safely. If this product is used another way from being written in this document, unexpected trouble such as connector breakage could happen. Please read through this document and understand proper operation before using.

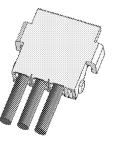
DF59-*P-2FC has a unique floating structure. Please be careful on its handling especially mating/unmating operation, and make sure that this document is handed to the person who actually uses this connector.

2.Part Number

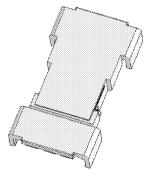
Item	Description		
DF59-*S-2V	Receptacle		
DF59-*P-2FC	Floating socket		
DF59-*P-2C	Crimp socket		
DF59-22PCFA	Crimp terminal		
DF59-*P-2SP	Short circuit pin		



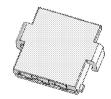
DF59-3S-2V



DF59-3P-2C +DF59-22PCFA (With Cable)



DF59-3P-2F



DF59-3P-2S

Fig. 1: DF59 Connectors (3 pos.)

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED		CHECKED			DATE
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TI.	TLE		HIROSE ELECTRIC CO., LTD.					
DF59 Series Mating/Unmating Operation Instruction Manual			APPROVED		KI.AKIYAMA		11.02.14	
			CHECKED		OM.MIYAMOTO		11.02.14	
			DESIGNED		KT.ISHII		11.02.14	
				WRITTEN		KT.ISHII		11.02.14
		TECHNICAL SPECIFICATION	1	ETAD-H0496 🛕			1 / 8	

3. Operation Procedures for Floating Socket

3-1. Maiting

3-1-a. Alignment for Mating

Hold part A on the floating socket, and place it on the receptacle so that part A matches to part B.

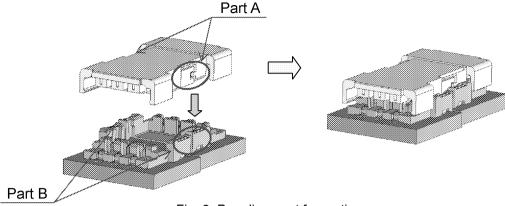
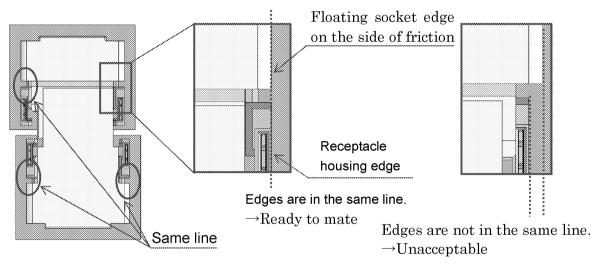


Fig. 2: Pre alignment for mating

Align the floating socket edge on the side of friction lock to receptacle housing edge in a line.

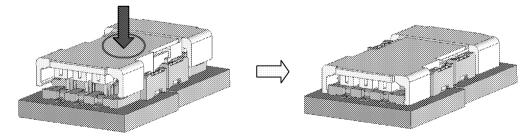


Note) Forcible mating without above alignment process could cause contact deformation.

Fig.3: Alignment for mating

3-1-b. Mating

Press down at the center surface of the floating socket.



Note) Press down until the floating socket touches to the receptacle.

Fig. 4: Mating

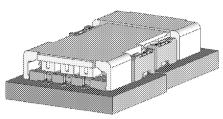
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3-1-c. Mating Confirmation

Make sure that the floating socket is completely mated.

If the floating socket is not leveled, remove it from the receptacle and mate again. Refer to 3-2. for unmating operation.

[Correct image of mated connector]



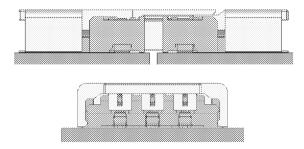


Fig. 5: Mating confirmation

3-2. Unmating

3-2-a. Unmating-1

Hook the lever on either sides of socket (1) or (2) with finger and lift up to the upper direction for unlock.

Note) Lift up until friction lock is released.

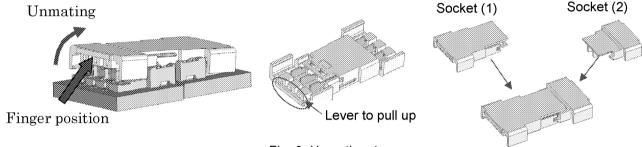


Fig. 6: Unmating-1

When lifting up the floating socket, apply even force to the center in pitch direction and do not operate at the corners.

(Avoid concentrating force to either contact No. 1 side or the other side.)



Fig. 7: Position to apply force

3-2-b. Unmating-2

After releasing either side, hook the lever on the other side with a finger and lift up to the upper direction, too.

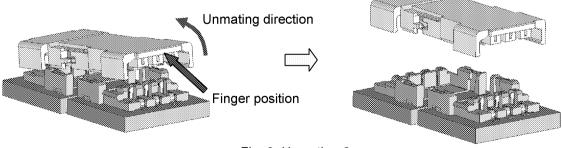


Fig. 8: Unmating-2

4. Operation Procedures for Crimp Socket

4-1. Mating

4-1-a. Alignment for Mating

By positioning the convexity of the crimp socket sides to the receptacle concavity, align the centers of the crimp socket and the receptacle in pitch direction.

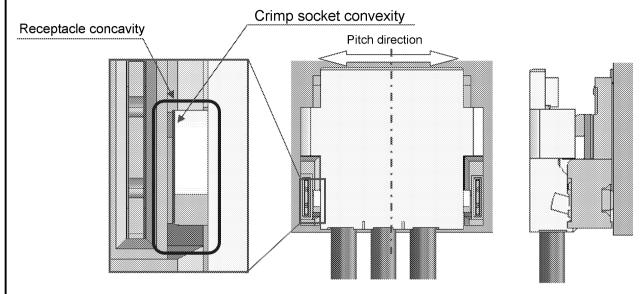
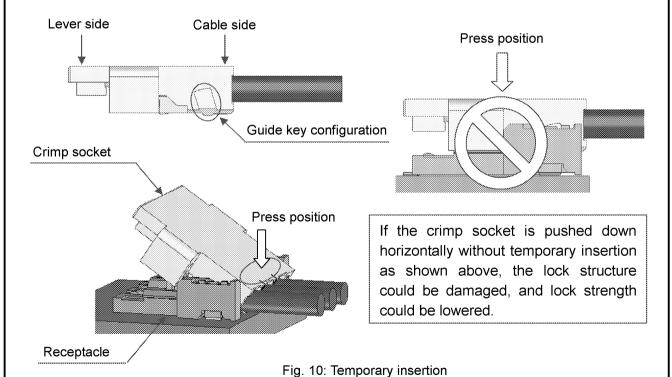


Fig. 9: Alignment for mating

4-1-b. Temporary Insertion

Slightly press the crimp socket down at the cable side to tilted angle.



4-1-c. Mating

Keep pressing down at the cable side and also apply force to the lever side to mate. (If the cable side floats before mating is finished, the lock may not work.)

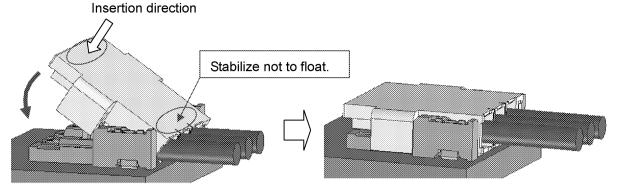


Fig. 11: Mating

Apply even force to the center of the socket in pitch direction for mating.

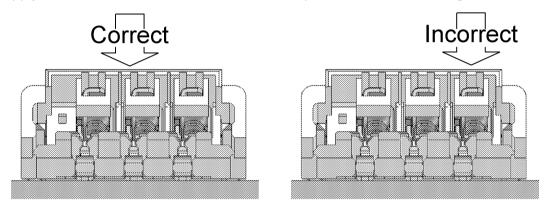


Fig. 12: Position to apply force

4-1-d. Mating Confirmation

Make sure that the crimp socket is completely mated.

If one side is floated or not completely mated, remove the socket from the receptacle and mate again.

Refer to 3-2. for unmating operation.

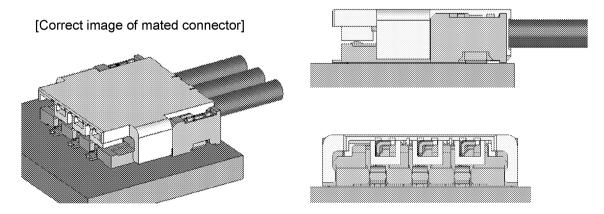


Fig. 13: Mating confirmation

4-2. Unmating

4-2-a. Unmating

Hook the lever with finger and lift up to the upper direction for unlock.

Note) When lifting up the lever, do not apply downward force to the cable side of the crimp socket. This could damage the connector.

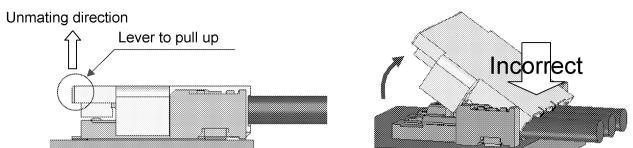


Fig. 14: Unmating

For unmating, apply even force to the center in pitch direction and do not operate at the corners. (Avoid concentrating force to either contact No. 1 side or the other side.)



Fig. 15: Position to apply force

Make sure to use the lever for removal operation. If the cable is pull for removal, it could break the cable or damage the connector.

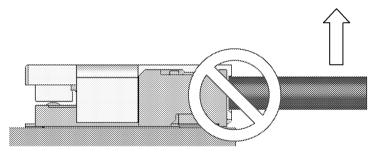


Fig. 16: Incorrect removal operation

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5. Operation Procedures for Short Circuit Pin

5-1. Mating

5-1-a. Alignment for Mating

By positioning the convexity of the short circuit pin sides to the receptacle concavity, align the centers of the short circuit pin and the receptacle in pitch direction.

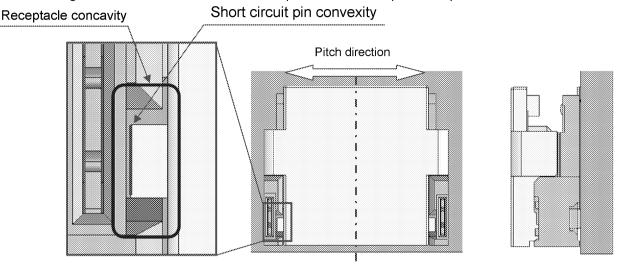
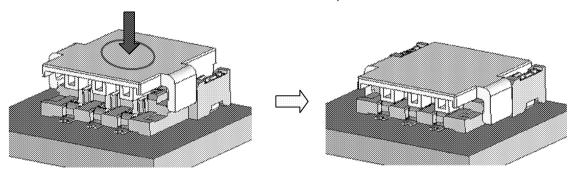


Fig. 17: Alignment for mating

5-1-b. Mating

Press down at the center surface of short circuit pin.



Note) Press down until the short circuit pin touches to the receptacle.

Fig. 18: Mating

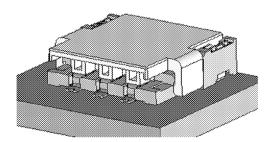
5-1-c. Mating Confirmation

Make sure that the short circuit pin is completely mated.

If it is not completely mated, remove the short circuit pin from the receptacle and mate again.

Refer to 5-2. for unmating operation.

[Correct image of mated connector]



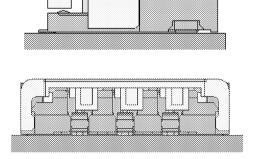


Fig. 19: Mating confirmation

5-2.Unmating



5-2-a. Unmating

Hook the lever with finger and lift up to the upper direction for unlock.

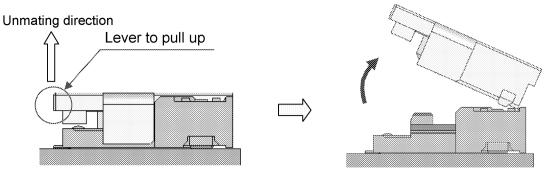


Fig. 20: Unmating

For unmating, apply even force to the center in pitch direction and do not operate at the corners. (Avoid concentrating force to either contact No. 1 side or the other side.)

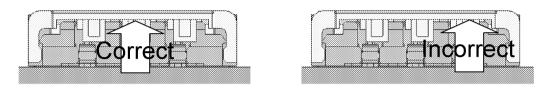


Fig. 21: Position to apply force

6. Precautions

- Do not operate the connector while the electricity is carried.
- •If external force is excessively applied to the connector, failure or damage could be caused. Forcible mating/unmating, cable pull / cabling and mechanical shock, should be avoided.

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