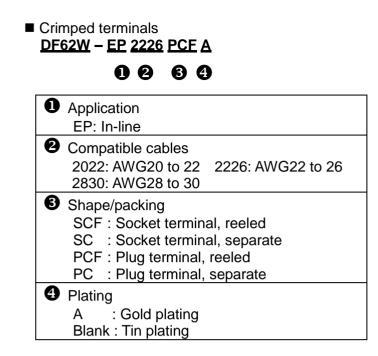
1. Scope

This document specifies the steps from crimping the DF62W-series crimped terminals to cables (AWG20 to AWG30) to inserting the terminals to crimping sockets, and inserting the terminal into the crimp case, and the procedure for mounting the panel of the DF62WP series.

2. Connectors

■ Crim	bing cases						
DF62	<u>₩</u> #- <u>*</u> EP- <u>2.2</u> C 2635656						
0	Name: DF62W						
2	Wire seal						
	#=None or A to E						
€	No. of poles: 2 to 9						
-	Connector types						
	S : Socket						
	EP: In-line plug						
6	Contact pitch: 2.2 mm						
6	Shape of connection/terminal						
	C : Crimping case						
<u>DF62</u>		~,					
0	Name: DF62WP						
2	No. of poles: 2 to 9						
" /" Indicates that the connector is a							
	omposite connector with a r oles separated by it.	number of					
6	Connector types						
	EP: In-line plug						
	Contact pitch: 2.2 mm						
	Shape of connection/terminal C : Crimping case						
DF62	r proof pin <u>W – WP</u> D Application]					
	WP: Waterproof pin						
COUNT	DESCRIPTION OF REVISIONS	DESIGNE	D		CHECKED		DATE
4 12	DIS-H-00006326	KI.SUGAWA		ST.WADA		20201006	
TITLE	I		LD(1	
	COM Carles Cable Assessible Descention				APPROVED KI.AKIYAMA		
DF62W Series Cable Assembly Procedure							20140215 20140214
DF62WP series panel installation procedure				CHECKED OM.MIYAMOTO DESIGNED KT.ISHII		20140214	
				WRITTEN KT.ISHII		20140213	
TECHICAL SPECIFICATION					-H0760		1/17
						•	





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3. Steps for harnessing

3.1. Cable stripping

Strip cables in accordance with Crimping Quality Standards (ATAD-H0762/0763). In so doing, make sure there is no scratch on cable cores.

3.2. Crimping

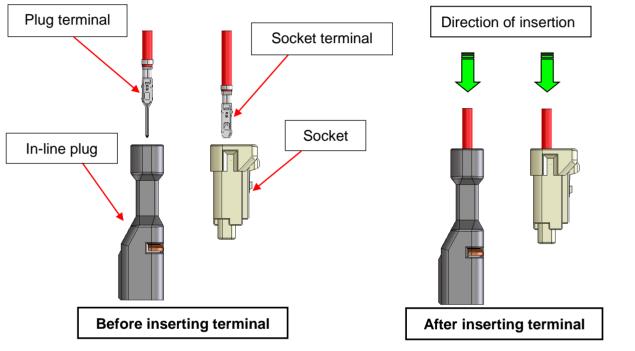
Crimped terminals to cables using an applicator (AP105-DF62W-**), and check the crimping height and shape in accordance with the Table of crimping conditions and Crimping Quality Standards (ATAD-H0762/0763). (** = 2022, 2226, 2830)

3.3. Insertion to crimping terminal sockets

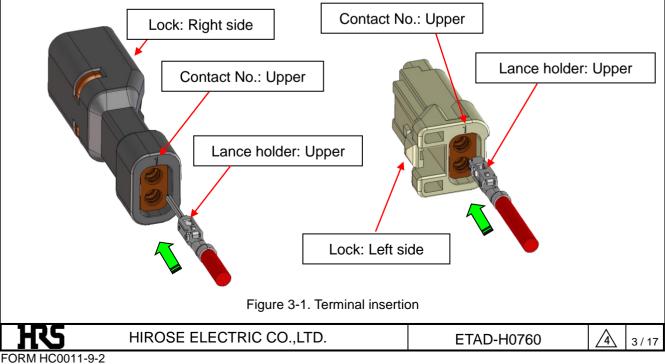
Insertion to DF62W- * EP-2.2C and DF62W- * S-2.2C

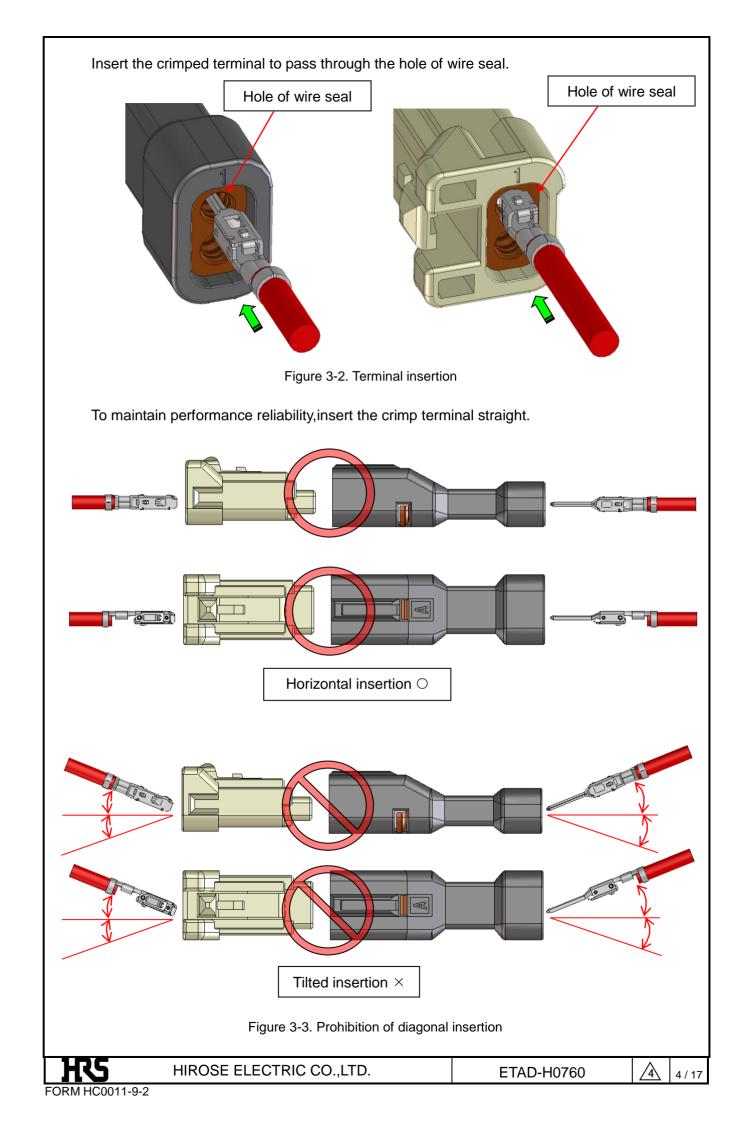
Hold the cable of a crimped terminal, and insert it to each terminal hole of crimping sockets. (Insert the terminal in the direction of arrows below.)

*The figures show insertion to DF62W-2poles connector.



For insertion, place the crimped terminal and crimping socket lock in the following direction.

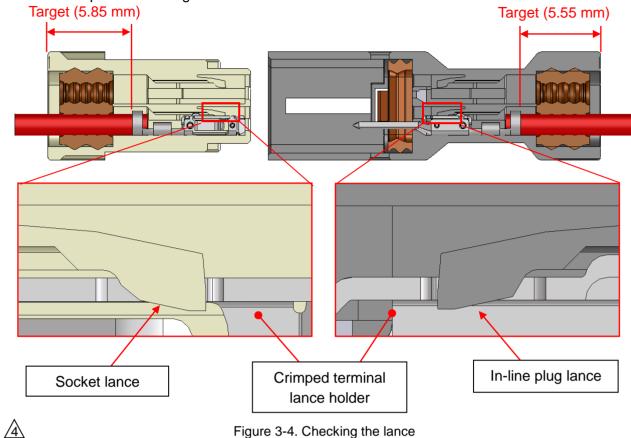




Check that the lance of a crimping socket has been caught at the lance holder of a crimped terminal.

(Slightly pull the terminal to check.)

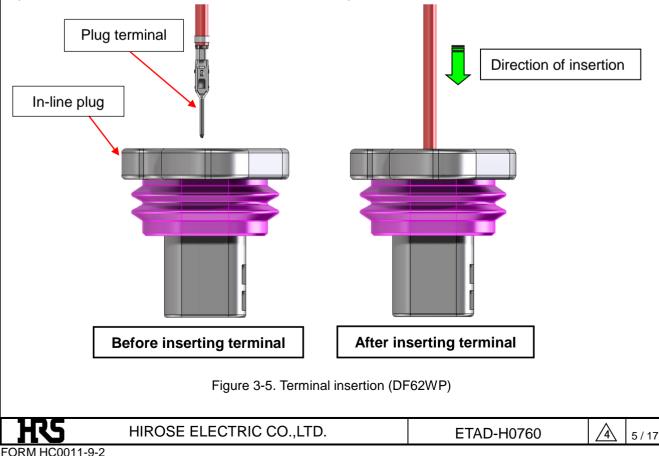
*To remove the crimped terminal halfway through insertion, pull the cable while pressing wire seal to prevent coming off.

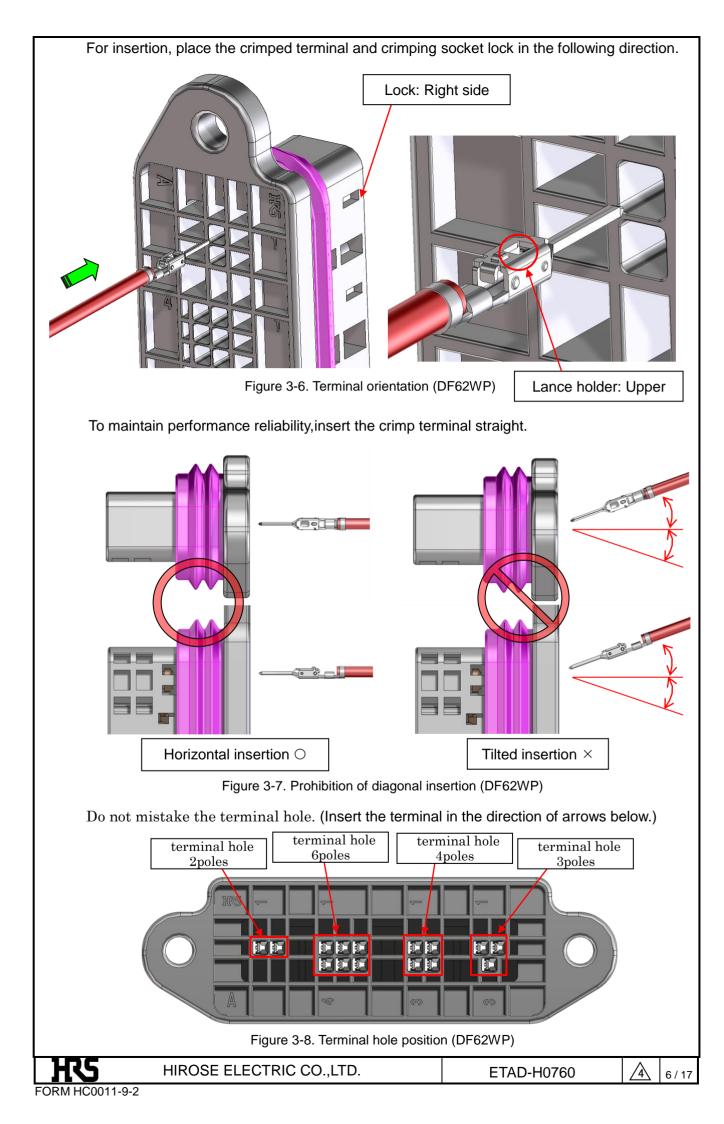


Insertion to DF62WP series

*The figures show insertion to DF62WP-3/4/6/2EP-2.2C

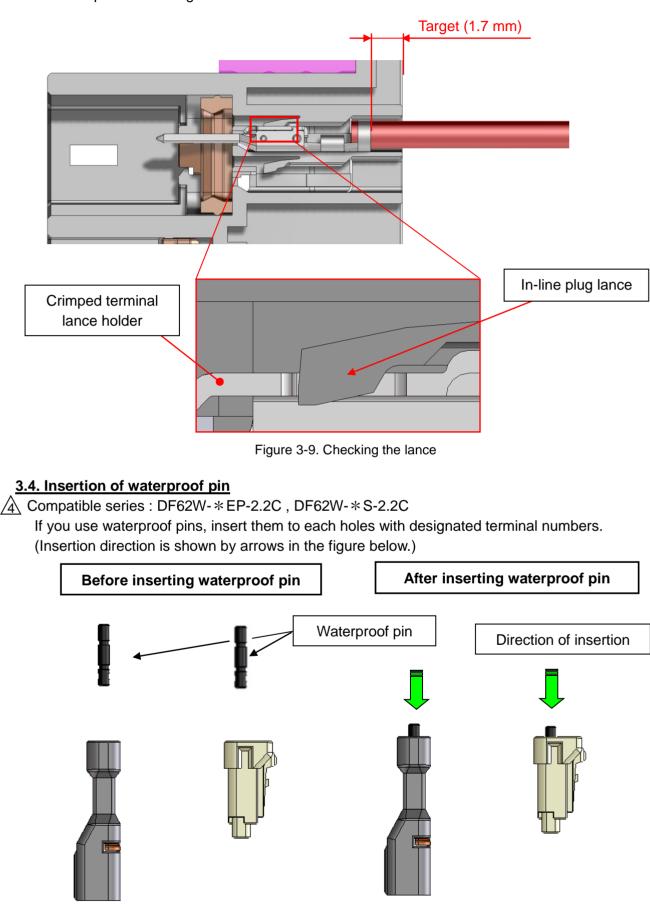
Hold the cable of a crimped terminal, and insert it to each terminal hole of crimping sockets. (Insert the terminal in the direction of arrows below.)





Check that the lance of a crimping socket has been caught at the lance holder of a crimped terminal. (Slightly pull the terminal to check.)

*To remove the crimped terminal halfway through insertion, pull the cable while pressing wire seal to prevent coming off.

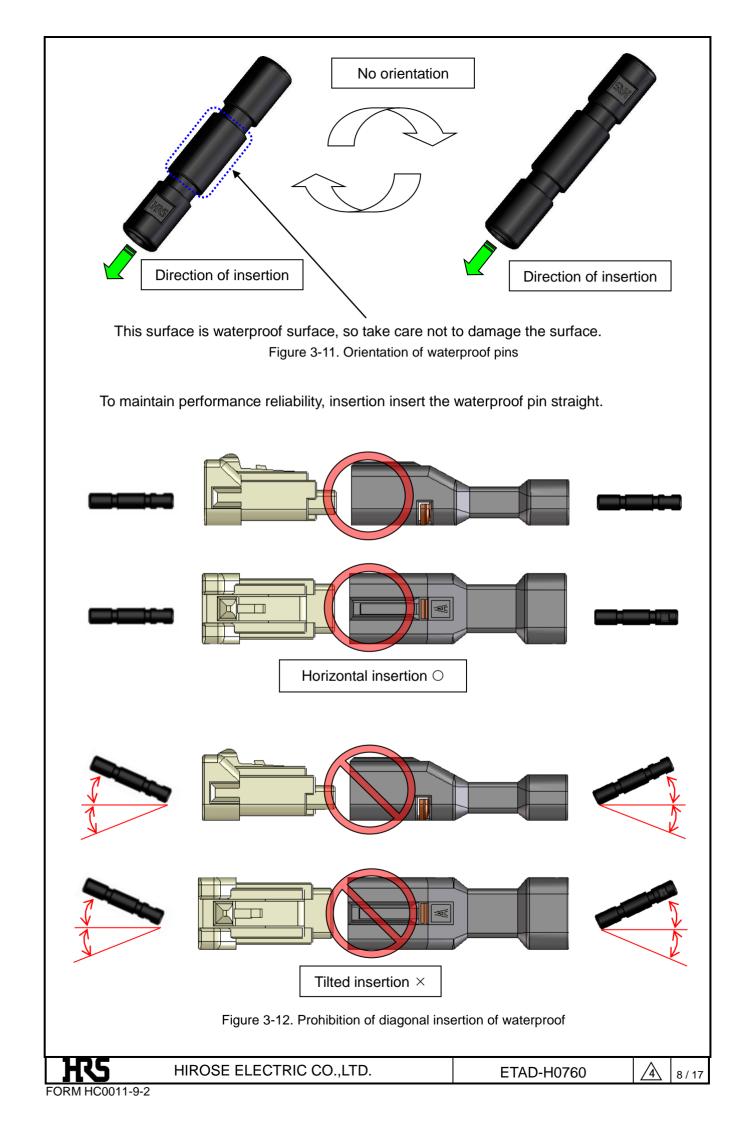


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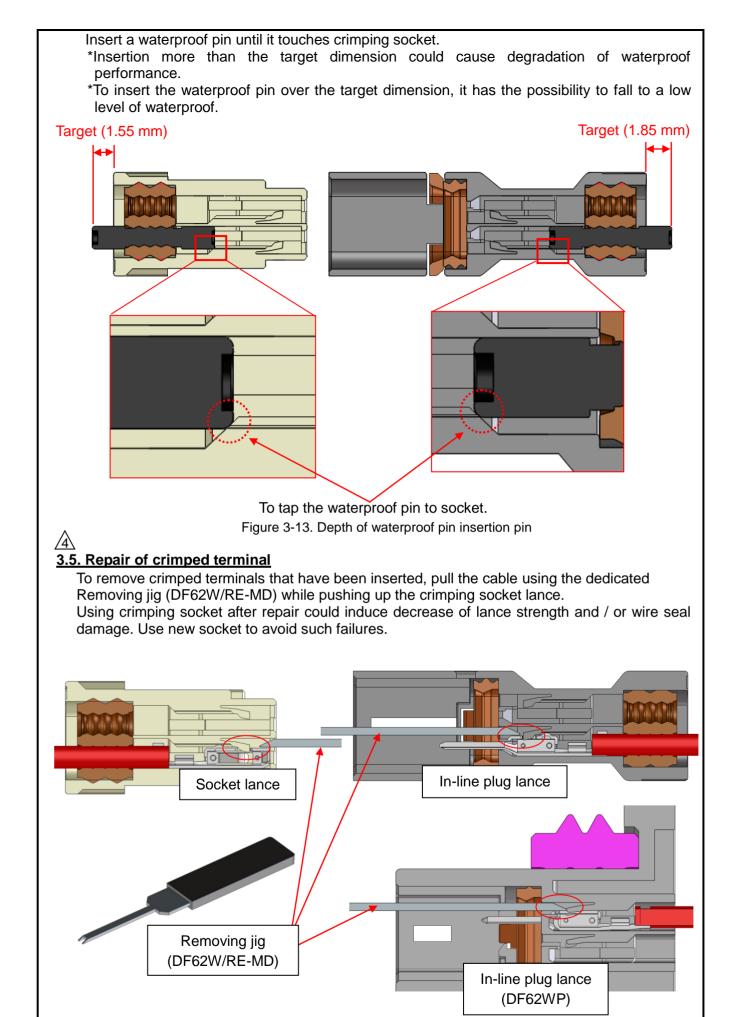


Figure 3-14. Repair of crimp terminals 1

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Insert the removing jig along the lance of crimping socket. (Check the appearance with the hand lens.)

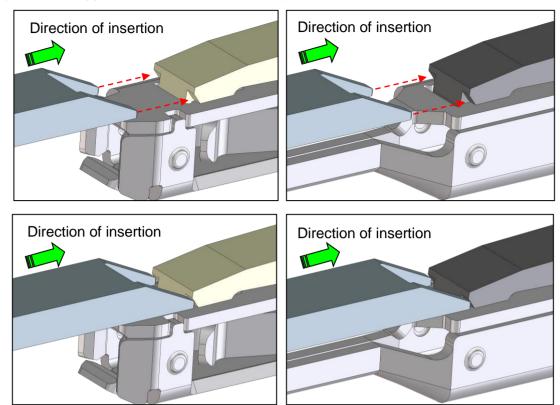


Figure 3-15. Repair of crimp terminals ②

Additionally insert the removing jig to push up the socket lance. Keep the lance position and pull the cable.

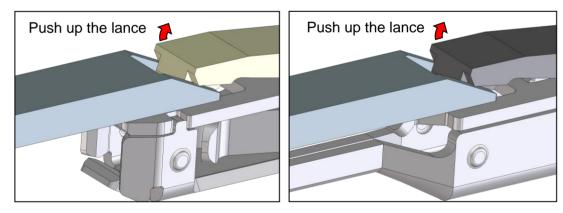
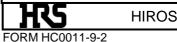


Figure 3-16. Repair of crimp terminals ③



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4. Steps for mounting the panel of the DF62WP series.

4.1. Mounting the panel

4.1-a. Panel insertion

Align the connector using the screw holes on the panel side as a guide. Insert the connector as far as it will go while maintaining the aligned position. * The shape of the panel is an example.

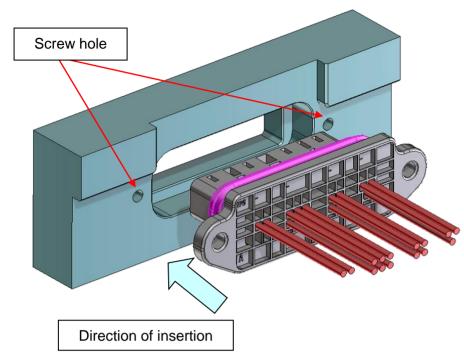


Figure 4-1. Insertion into the panel

If the panel has a shape to prevent reverse mounting, align the orientation with the protrusion shape before inserting.

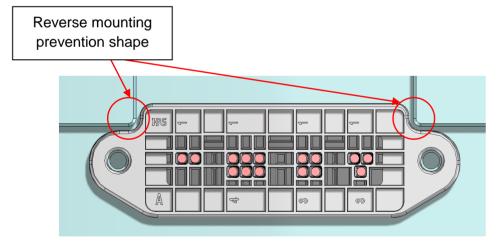


Figure 4-2. Reverse mounting prevention shape



Since the connector may be damaged or the waterproof seal may be broken, insert the connector straight into the panel and attach it.

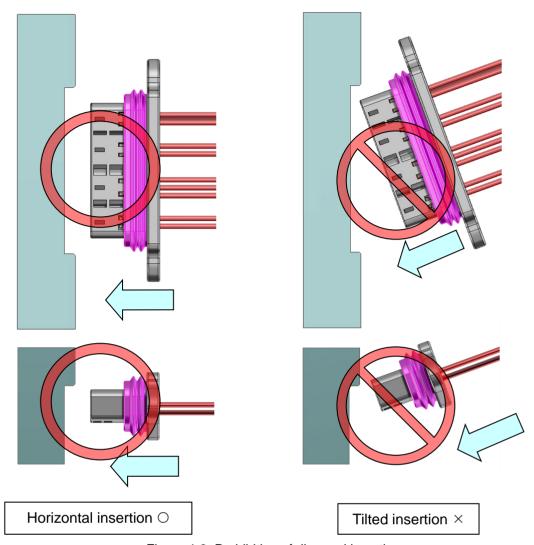
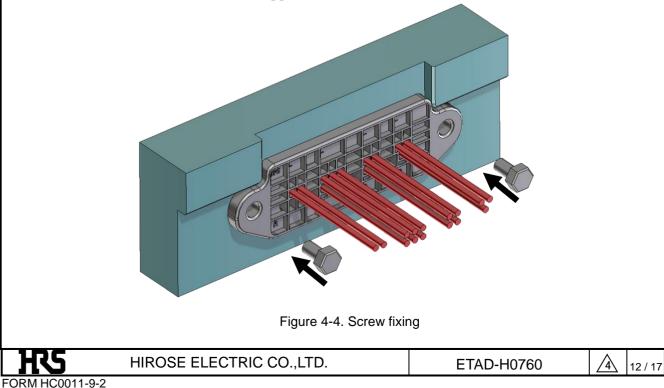
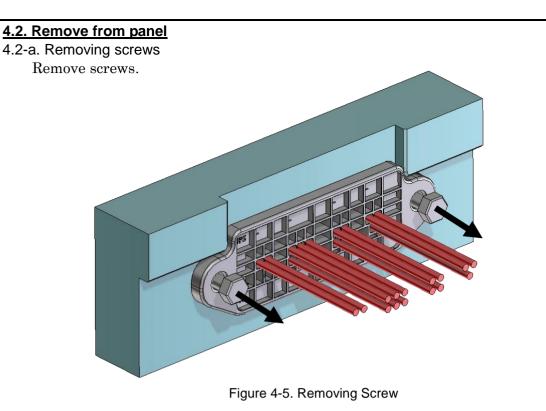


Figure 4-3. Prohibition of diagonal insertion

4.1-b. Fixed with screws

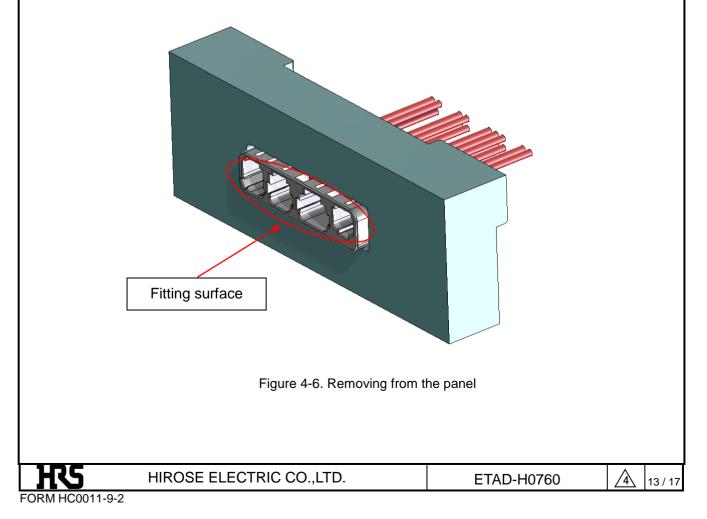
Install the screws with the connector fully inserted. At this time, do not fix the screws when the connector is biased in either the vertical or horizontal direction or when an excessive load is applied.





4.2-b. Removing the connector

Remove the connector from the panel. At this time, push the connector mating surface side to remove it. Do not pull the cable to remove it as it may cause the terminal to come off.



<u>5. Notes</u>

*Packing and storage

To pack or store assemblies, make sure overlapped connectors will not apply extreme load to the lack section.

If load is applied to the lock section under high temperature and humidity for a long period of time, the lock section will be deformed which could lead poor fitting.

*Excessive external force applied to connectors could cause failure or damage. Therefore, avoid forced insertion or removal, dropping impact, cable wiring (pull, twist) and such.

- Note) Breaking strength of lock is approx. 30 N when connector is pulled in straight direction. Please avoid excessive force is applied to the connector.
- Note) Retention force is approx. 7 N / Pin. Please avoid excessive force is applied to particular cable.
- *When wiring the cable inside the device, make sure that the cable is routed with a margin so that it will not be in a stretched state or in a state where excessive tension is applied.
- *Check with the cable manufacturer for cable flexibility.
 - *If the rubber seal is damaged, the connector is deteriorated water resistant performance. Therefore, do not use the connector whose rubber seal is damaged.
- *When using the DF62WP series, use the screws shown in the drawing for the fixing screws.

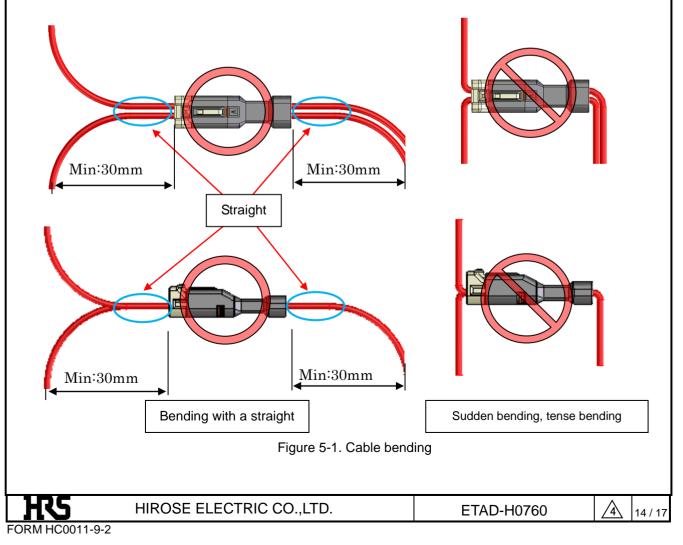
Cable bending

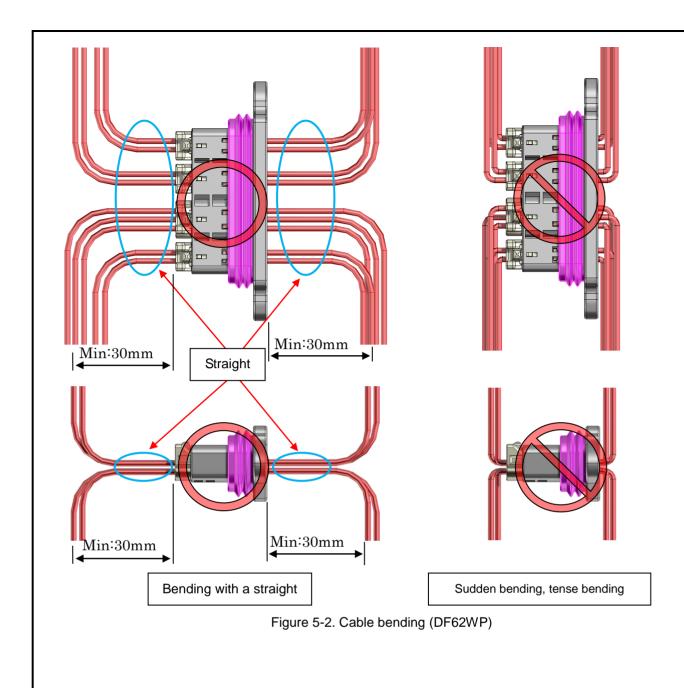
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When bending the cable, provide a straight part from the end face of the connector as shown in the figure below and bend it.

(It depends on the flexibility of the cable, but please bend it at the position of 30 mm as a guide.)

Do not bend sharply from the end face of the connector or stretch the base of the cable because it will put a load on the terminal contact part and the terminal crimping part and cause contact failure and waterproof failure.



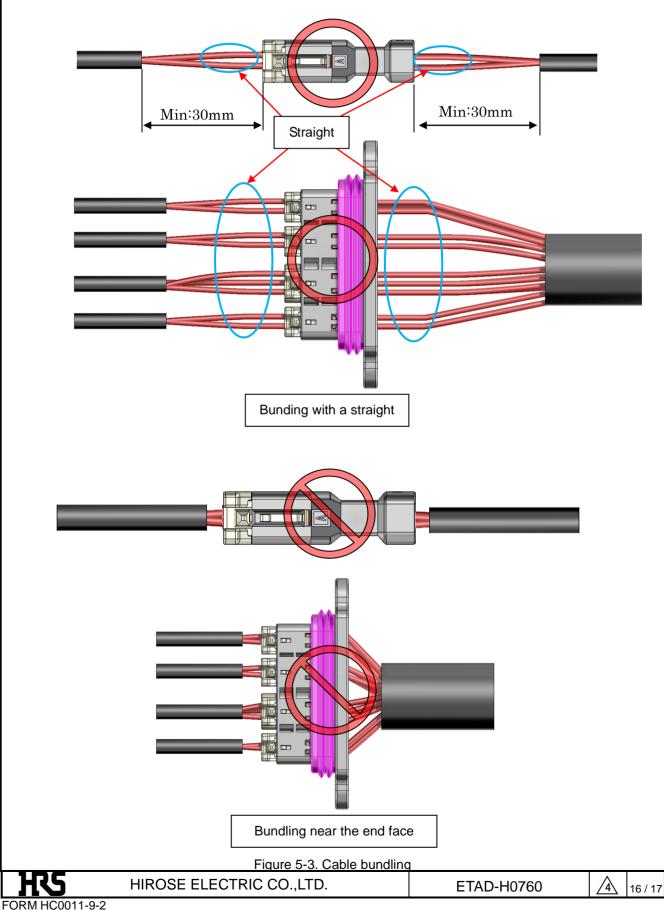


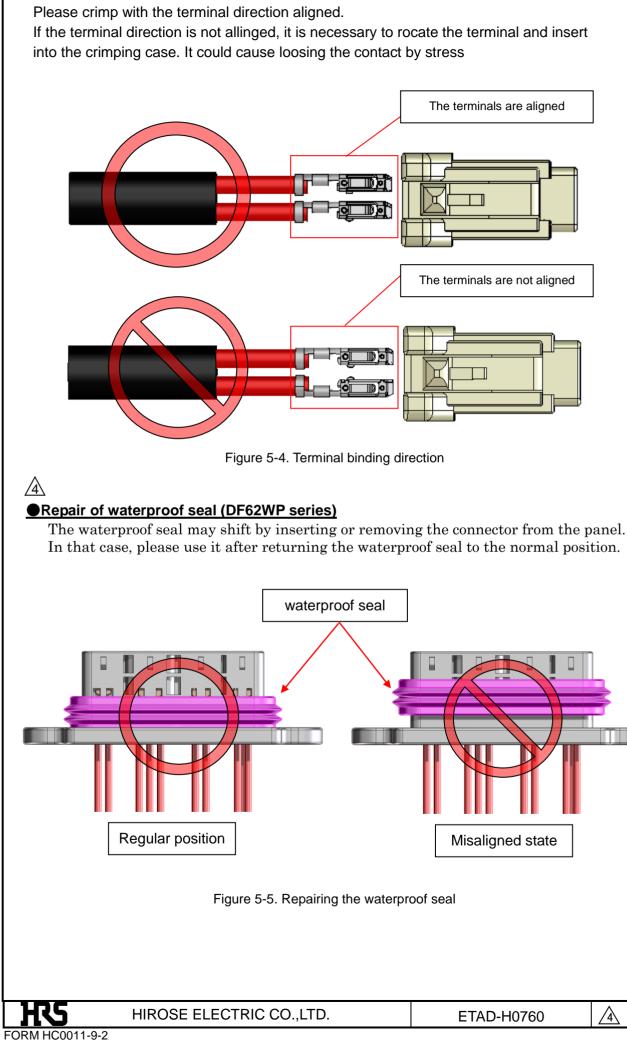


<u>√4</u> ●Cable bunding

When bundling cables, prepare a part that is straight from the end face of the connector as shown in the figure below, and tie it at least 30 mm away from the end face of the connector.

Do not bind near the end face of the connector because it will put a load on the terminal contact part and the terminal crimping part and cause contact failure and waterproof failure.





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