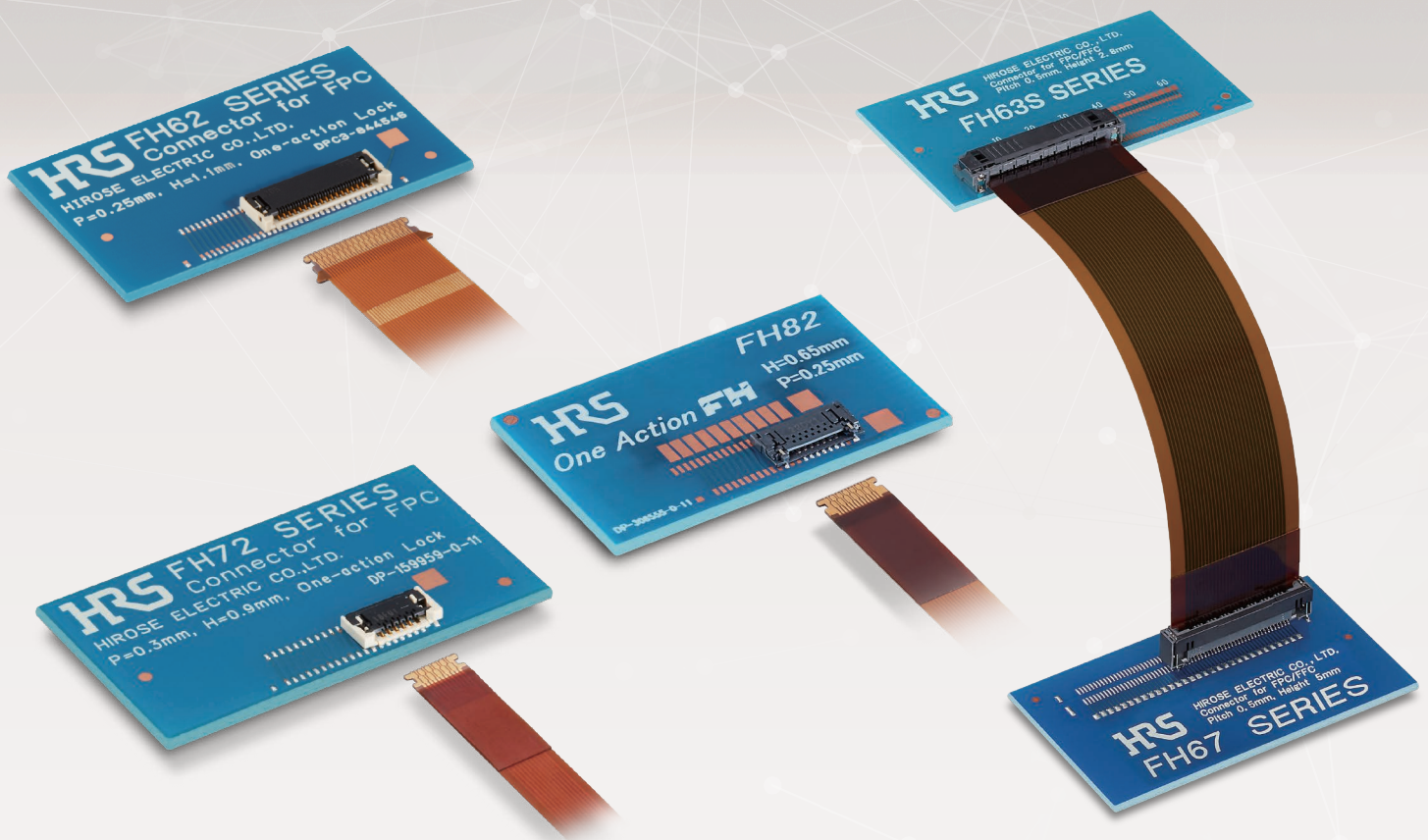


One Action FPC/FFC Connectors

OneAction **FH**™



One Action, Simple and Easy

3 Features of One Action FH™ that Realize Design Freedom and Automated Assembly

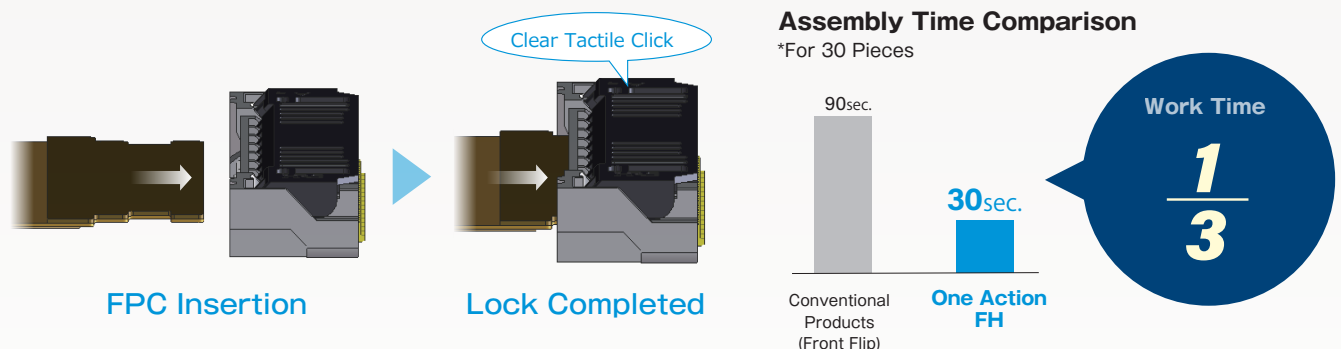
One Action FH can be connected by simply inserting the FPC/FFC, no actuator operation required. It is also effective for robot assembly, and by reducing the number of operations steps from three to one, the work time can be greatly reduced.

Feature **1** Connection Just by Insertion **Easy and Simple**

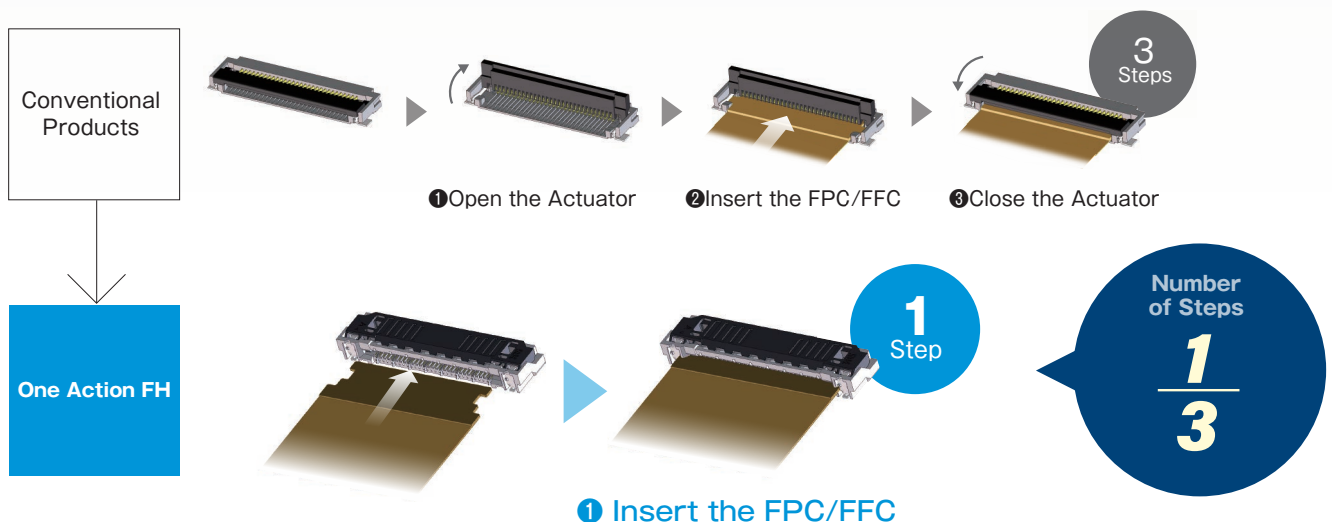
Unlike the conventional connection process of opening the actuator, inserting the FPC/FFC and then closing the actuator, connection is completed by just inserting the FPC/FFC with One Action FH. There is no need to touch the actuator when

connecting, preventing actuator damage. Locking is completed at the same time as the FPC/FFC insertion so incomplete mating does not occur. The work time and number of operation steps are reduced to 1/3rd for a significant reduction in man-hours.

Work Time



Operation Steps



Feature

2

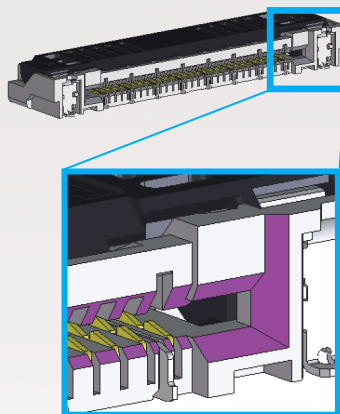
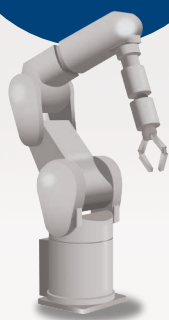
Contributes to Automation

Supports Robot Assembly

One Action FH features a large taper on the opening to allow smooth insertion. The unique spring design reduces the insertion force of the FPC/FFC and dramatically improves the

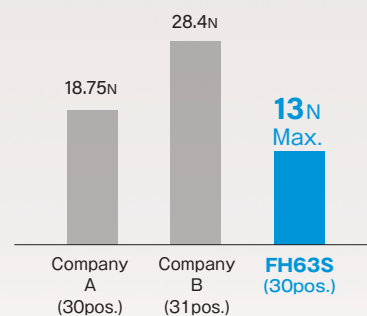
insertion performance, enabling easy operation for both humans and robots.

Compatible
with
Automated
Assembly



Smooth insertion
with large tapered
openings.

FPC Insertion Force Compared to Competitors



The spring design does not
interfere with FPC/FFC
insertion and reduces
insertion force.

Feature

3

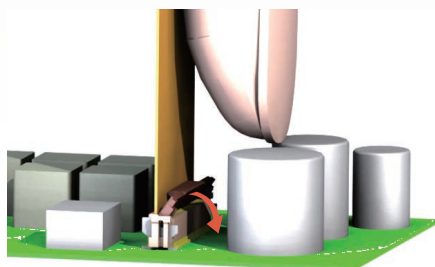
Increased Design Flexibility

Easy Connection in
Narrow Spaces

Convention products require actuator operation when inserting the FPC/FFC. Therefore, it is difficult to open and close the actuator if there is another component placed nearby.

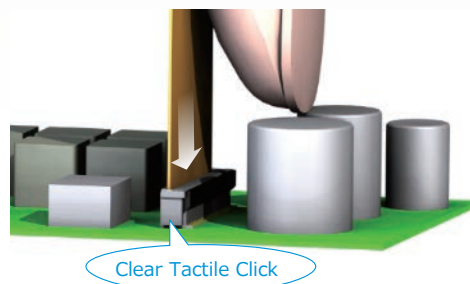
With One Action FH, only insertion is required. As long as there is space for FPC/FFC insertion then connection can be achieved even in narrow spaces.

FH12-SV

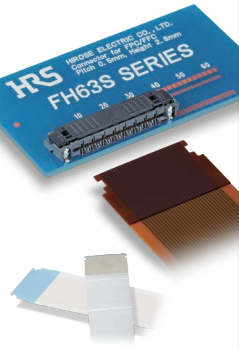
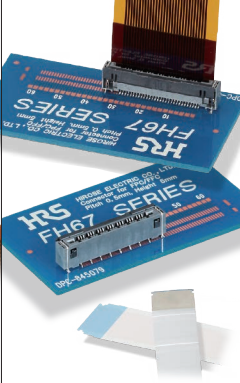
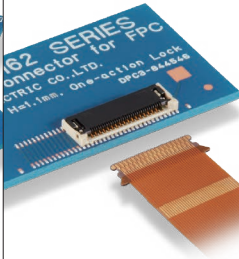
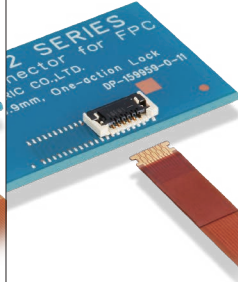
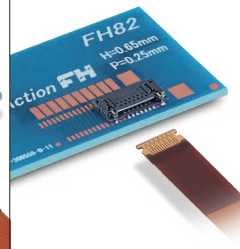


Cannot close the actuator well
if there is a component nearby.

FH67

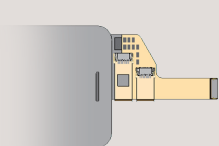


No problems even with other parts
nearby since only insertion is required.

Series	FH63S Series	FH67 Series	FH62 Series	FH72 Series	FH82 Series
					
Pitch	0.5mm		0.25mm	0.3mm	0.25mm
Height	2.8mm	5.2mm	1.1mm	0.9mm	0.65mm
FPC/FFC Thickness	0.3±0.05mm	0.33±0.03mm (0.3±0.05mm planned)	0.3±0.03mm	0.2±0.03mm	0.2±0.02mm
Supported Wiring	FPC/FFC/Shielded FFC		FPC		
Pos. Varieties	10, 20, 30, 40, 50pos. (60pos. planned)	10, 20, 30, 40, 50pos.	13, 17, 21, 31, 35, 39, 41, 55, 61pos.	11, 15, 21, 31pos. (7, 9pos. planned)	14pos. (8, 10pos. planned)
Rated Current	0.5A		0.3A		0.2A
Rated Voltage	50V AC/DC		30V AC/DC		
Operating Temperature	-55 to +105°C (Includes the temperature rise by current flow.)		-55 to +85°C (Includes the temperature rise by current flow.)		
Insulation Resistance	500MΩ Min. (100V DC)		50MΩ Min. (100V DC)		
Withstanding Voltage	150V AC for 1 min.		90V AC for 1 min.		
Contact Resistance	100mΩ Max. (Includes FPC/FFC conductor resistance.)	[FPC] Initial : 60mΩ Max. Post Test : 80mΩ Max. [FFC] Initial : 80mΩ Max. Post Test : 100mΩ Max. (Includes FPC/FFC conductor resistance.)	100mΩ Max. (Includes FPC conductor resistance.)		150mΩ Max. (Includes FPC conductor resistance.)

Application Examples

[Mobile Device]

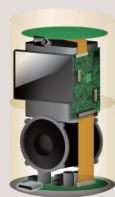


●Display
(Around the Touch Panel)



●Smartwatch

[Smart Home]

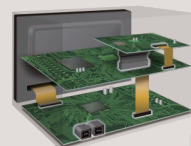


●Smart Speaker

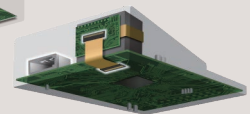


●Smart Lock

[Automotive Equipment*]



●Car Navigation/IVI



●Motion Sensor Camera

*In cases where the application will demand a high level of reliability, such as automotive, please contact a company representative for further information.

OneAction FH™ Special Site →

Hirose OneAction FH

Search

