One Action FPC/FFC Connector

OneAction FH™

HIROSE ELECTRIC CO., LTD.

FH ··· Flip-Lock Pioneer Hirose

FPC/FFC Connectors that Connects in One Action

One Action, Simple and Easy

OneAction FH™

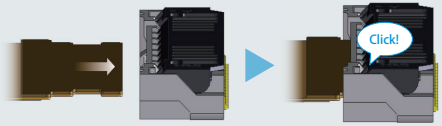
3 Features of One Action FH™ that Realize Design Freedom and Automated Assembly

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 — Simple and Easy

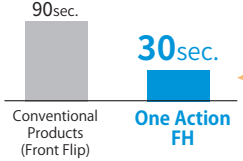
Connection Just by Insertion

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.



FPC Insertion　　Lock Completed

Assembly Time Comparison
*For 30 Pieces

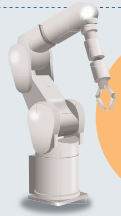


Work Time 1/3

Feature 2 — Supports Robot Assembly

Contributes to Automation

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.

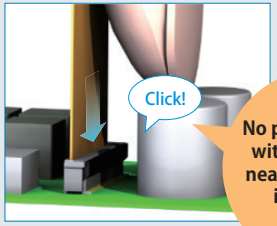


Compatible with Automated Assembly

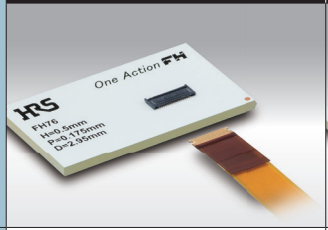
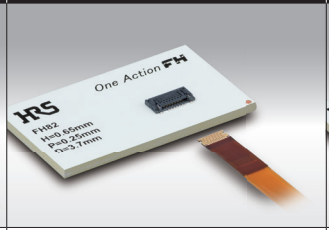
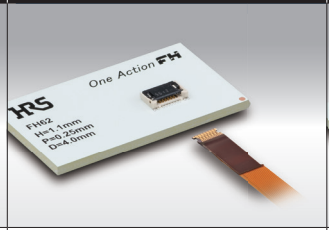
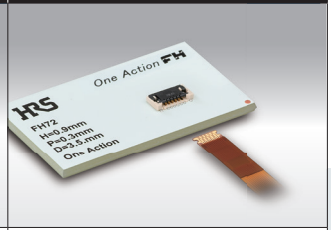
Feature 3 — Easy Connection in Narrow Spaces

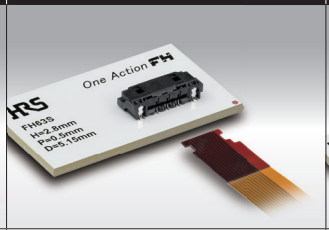
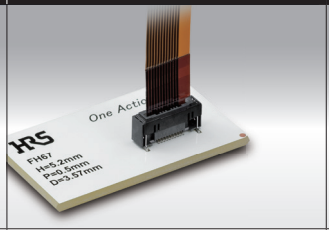
Increased Design Flexibility

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.



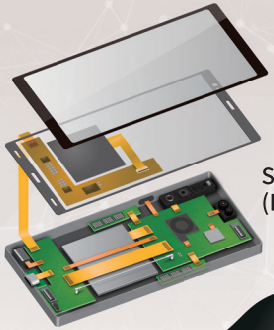
No problems even with other parts nearby since only insertion is required.

	For **Wearable**		For **Camera**	
Series Name	**FH76**	**FH82**	**FH62**	**FH72**
				
Pitch (mm)	0.175	0.25	0.25	0.3
Height (mm)	0.5	0.65	1.1	0.9

	For **PC**	For **Automotive**		
Series Name	**FH81**	**FH63S**	**FH67**	
				Coming soon
Pitch (mm)	0.5	0.5	0.5	
Height (mm)	1.0	2.8	5.2	

Application Examples

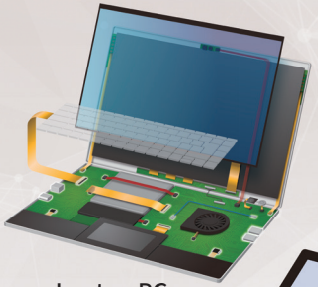
Smartphone & Wearable



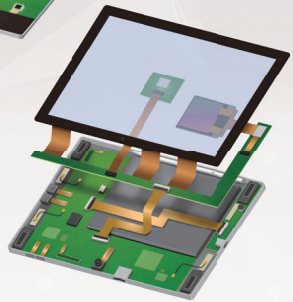
Smartphones
(Display)

Smart Watches

PC & Tablet



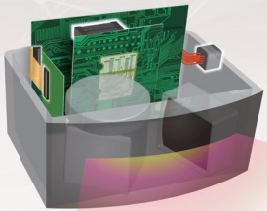
Laptop PCs



Tablet PCs

Automotive

Meter



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https://www.hirose.com

The information in this brochure is current as of November, 2025.
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