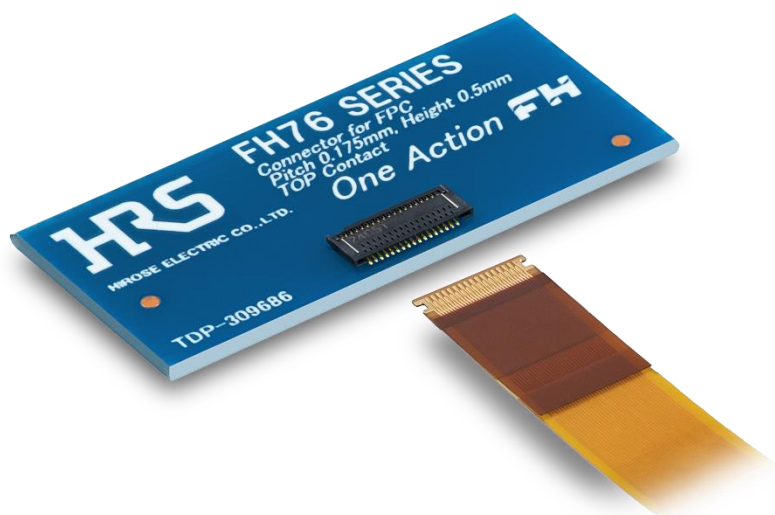


[To the press] [July 31, 2025]

Hirose Electric Launches FH76 Series: World's Lowest Profile and Narrowest Pitch in a One-Action FPC Connector **~Supports miniaturization of smartwatches, foldable smartphones, and other compact devices~**



Hirose Electric has developed the FH76 Series, a One Action FPC connector that features the world's lowest profile (0.5 mm) and narrowest pitch (0.175 mm) among connectors with a One Action structure. Optimized for compact and ultra-thin devices like smartwatches and foldable smartphones, the FH76 Series uses a simple One Action locking mechanism that eliminates the need to operate an actuator during FPC insertion—reducing the risk of assembly errors. This connector helps address the design challenges of increasingly thin and functional wearable devices.

Example of Expected Application

Smartwatches, wearable devices, smartphones, and other compact electronics

- **Contributing to the advancement of the consumer market through further miniaturization, device thinning, and improved usability.**

In compact wearable devices like smartwatches and smartphones, the demand for ultra-low-profile, space-saving connectors continues to grow—driven by thinner designs, more integrated functions, and larger batteries. For smartphones in particular, reducing thickness on one side is key, making low-profile connectors indispensable. However, as connectors become thinner, operating traditional actuators becomes more difficult, slowing down assembly and increasing the risk of error. This has led to growing interest in One Action connectors that simplify the process by eliminating the need to operate the actuator.

To address these demands, Hirose Electric developed the FH76 Series—an ultra-low-profile FPC connector that features the world's lowest profile (0.5 mm) and narrowest pitch (0.175 mm) among One Action connectors. Its streamlined locking mechanism eliminates the need to operate the actuator during FPC insertion. Even after mounting, the actuator stays securely closed during transport, reducing the risk of detachment or damage. The One Action design also supports automated assembly, helping manufacturers improve efficiency and reduce human error.

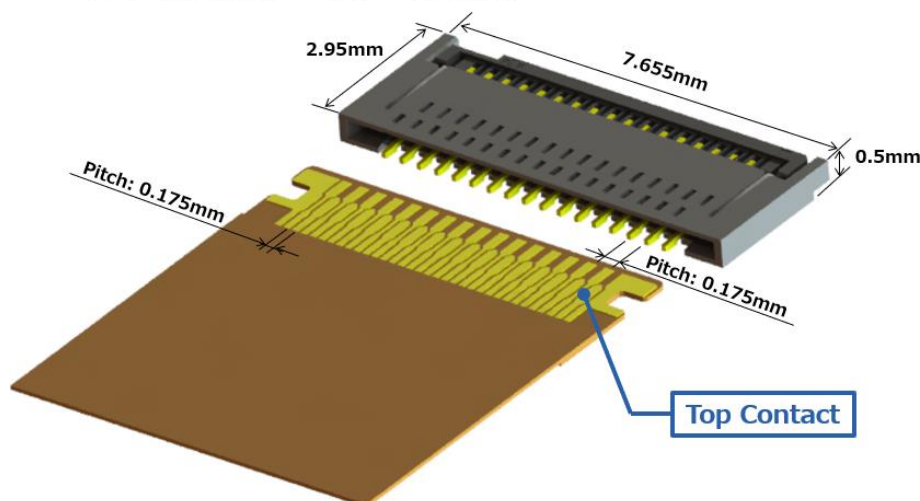
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● FH76 Series Features

- ① Ultra-Low Profile (0.5 mm): **World's lowest profile** for a One Action structure.
- ② Ultra-Narrow Pitch (0.175 mm): **World's narrowest pitch** for a One Action structure.
- ③ Actuator Retention: **Stays closed** during transport after mounting to prevent detachment.
- ④ Dust Prevention: Wiping structure **cleans contact points**.
- ⑤ Improved Operability: **No actuator operation needed**—easy insertion despite low profile.

Dimensions Example (34pos.)

- 0.175mm pitch
- FPC Thickness = 0.12 ± 0.03 mm



● Future Product Development

- Currently Available: 34 positions
 - In Development: 21, 25, and 41 positions
- The lineup may be expanded to include wider pitch options, such as 0.2 mm and 0.25 mm, while maintaining the same structural design.
- Hirose Electric will continue to grow its consumer market connector lineup—including the FH76 Series—to meet evolving needs.

● Company Profile and Related Information

- Company Overview
https://www.hirose.com/corporate/en/about/corporate_data/
- Product Series Page
<https://www.hirose.com/en/product/series/FH76/>
- Product Images
https://prd-4s-public.s3.ap-northeast-1.amazonaws.com/sys-master/public/h33/h45/9733167906846/FH76%28shadow%29_25.6.6_rgb.png