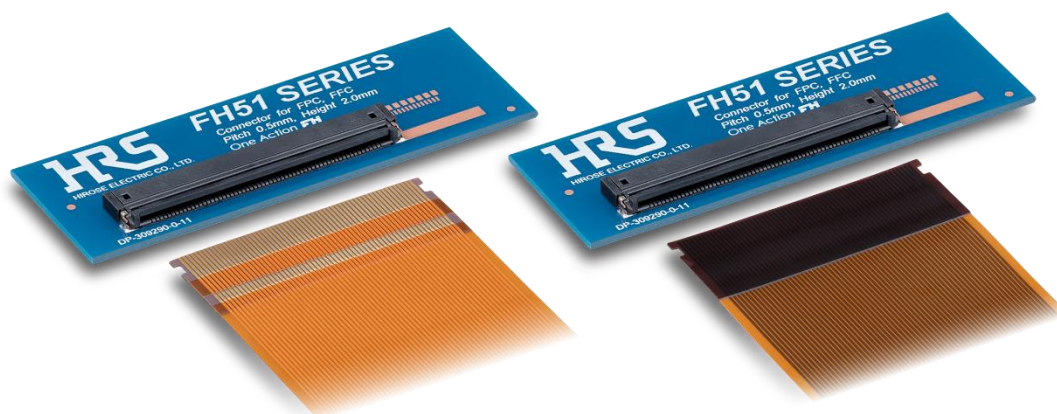


[To the press] 【September 8, 2026】

Hirose Electric Releases FH51 Series, an Automotive One Action Connector with 125°C Heat Resistance and Top & Bottom Contacts **~ Supporting Larger Automotive Displays and Improved Assembly Workability ~**



Hirose Electric has developed and released FH51 Series, an FPC/FFC connector designed for automotive display applications. This automotive connector combines heat resistance up to 125°C with top & bottom contacts, one action lock structure. It improves PCB design flexibility, enhances assembly efficiency, and delivers high connection reliability.

Application examples

- Automotive displays, cluster panels, LiDAR, and other applications

● Contributing to the Evolution of Automotive Displays through Higher Pin Counts and Improved Assembly Workability

In recent years, the automotive market has seen an increase in the number of required signals as displays become larger and adopt Mini-LED technology. As a result, connectors are expected to provide higher pin counts and high reliability. There is also growing demand for various connection types from the perspectives of assembly workability and greater freedom in FPC/FFC routing.

To address these market needs, Hirose Electric developed FH51 Series, high pin counts, top & bottom contacts, one action connector with 125°C heat resistance.

The product's 125°C heat-resistant design ensures stable connection reliability even in high-temperature environments. Thanks to a low-insertion-force contact structure, the series is planned to support up to 80pos. while maintaining one action structure, helping meet the increasing signal requirements of automotive displays. The top & bottom contact structure enables flexible FPC/FFC wiring design without dependence on contact orientation, supporting a wide range of layouts and improving design flexibility. Because the one action structure does not require actuator operation space during mating, the upper space above

[Inquiries from the press]

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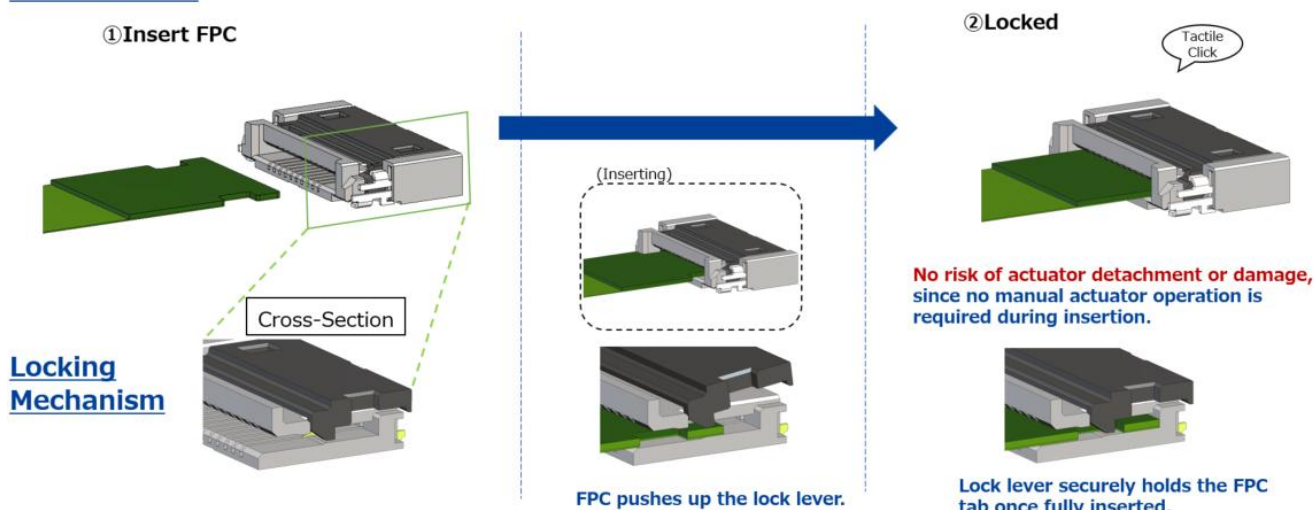
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the connector can be used effectively. This contributes to mounting in compact spaces and greater flexibility in assembly sequence. In addition, the structure eliminates concerns about actuator detachment or damage and supports automated mating, contributing to improved assembly process efficiency and stable quality.

● Features of FH51 Series

1. Industry-standard design with 0.5 mm pitch and 1.98 mm height
2. 125°C heat resistance (*125°C when using FPC; 105°C heat resistance when using FFC.)
-Meets stringent test conditions for various automotive devices
3. Planned expansion up to 80pos.
4. Top & bottom contact structure improves PCB design flexibility and assembly workability
5. One action lock improves workability and is also ideal for robotic assembly

FPC Insertion



● Future Product Development

Hirose Electric plans to expand the following number of pos. going forward.

[In mass production] Number of Positions: 60pos.

[Planned] Number of Positions: 10, 30, 40, 50, 80pos.

Hirose Electric will continue to expand its automotive market connector product lineup, including FH51 Series, to meet diversifying market needs.

● Company Profile, Related Information

■ Company Profile

https://www.hirose.com/corporate/en/about/corporate_data/

■ Product Series Page

<https://www.hirose.com/en/product/series/FH51>

■ Product Image

<https://prd-4s-public.s3.ap-northeast-1.amazonaws.com/sys-master/public/h62/heh/9996817432606/fh51-series-connector-overview.jpg>

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