

FH Flip-Lock Pioneer Hirose

## Features

- 1 Consistent reliability**
  - High FPC retention force with FPC side catch design
- 2 Back Flip/Front Axis™**
  - Actuator is closed during delivery and mounting to prevent damage
  - Contact gap for FPC insertion is guaranteed regardless of actuator operation
- 3 User-friendly design**
  - Tapers for smooth FPC/FFC insertion
  - Can check FPC position
- 4 Suitable for automotive infotainment**



Back Flip



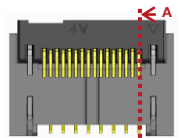
Close without FPC



Automotive

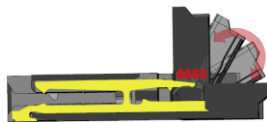
## Contacts Prevent Actuator from Coming Off

### Conventional Back Flip

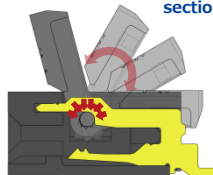


⇒ Contact supports the rotating axis of the actuator only in the upward direction

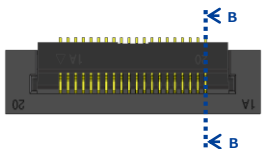
A-A Cross sectional view



B-B Cross sectional view



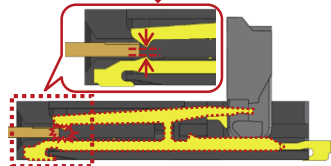
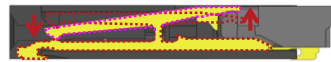
### TF45



⇒ Contact covers the rotating axis of the actuator.

## Contact Deformation Prevention

### Conventional Back Flip



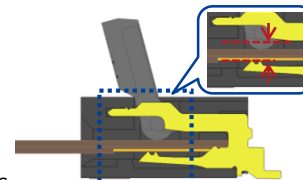
If the actuator is closed when the FPC is not inserted and then reopened, the contact gap becomes narrower.

⇒ FPC insertion force increases

### TF45



No effect on the contact from actuator operation



No change in the contact gap

⇒ Superior FPC insertion

## Specifications

Rated Current	0.5A
Rated Voltage	50V AC/DC
Operating Temperature	-40 to +105°C
Contact Resistance*	50mΩ Max.
Insulation Resistance	500MΩ Min. (500V DC)
Withstanding Voltage	250V AC for 1 min.

\* Includes FPC conductor resistance

- Reflow temperature: 250°C<sup>\*1</sup> Max.
- RoHS compliant, Halogen-free product<sup>\*2</sup>
- Variations : 10, 15, 20, 25, 30, 40, 50, 60pos.

<sup>\*1</sup> Lead-free solder has been used.

<sup>\*2</sup> This product satisfies halogen free requirements defined as 900ppm maximum chlorine, 900ppm maximum bromine, and 1,500ppm maximum total of chlorine and bromine.