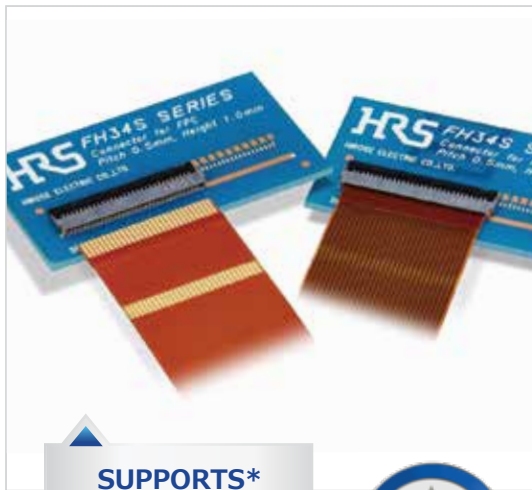


## FH34D Series

0.5mm Pitch, 1.0mm Height, Single-Sided Lead, Top & Bottom Contact, Back Flip FPC/FFC Connectors

### FEATURES:

- ▶ Reduced depth of 3.2mm maximizes board space
- ▶ Top & Bottom contact improves the design flexibility
- ▶ High FPC retention force with back flip & unique contact design
- ▶ Easy actuator lock by simple 2-step operation (Actuator is delivered in open position)
- ▶ Smooth FPC/FFC insertion with tapered housing opening
- ▶ No PCB routing prohibited area on the bottom of the connector
- ▶ FPC retention enhanced by tab lock



**SUPPORTS\***  
 USB3.2 Gen 2  
 PCIe Gen 3  
 eDP 1.3  
 MIPI D-PHY 1.1



### FH34D (For FPC with Tabs)

#### Dimensions Example

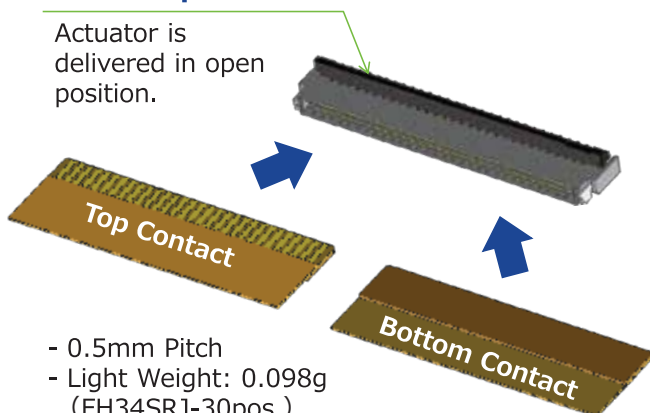
- 0.5mm pitch
- FPC Thickness=0.3±0.03mm
- No. of Pos.: 10pos. (Under development : 4-30pos.)

Accepts FPC/FFC in Both Top and Bottom Contacts –

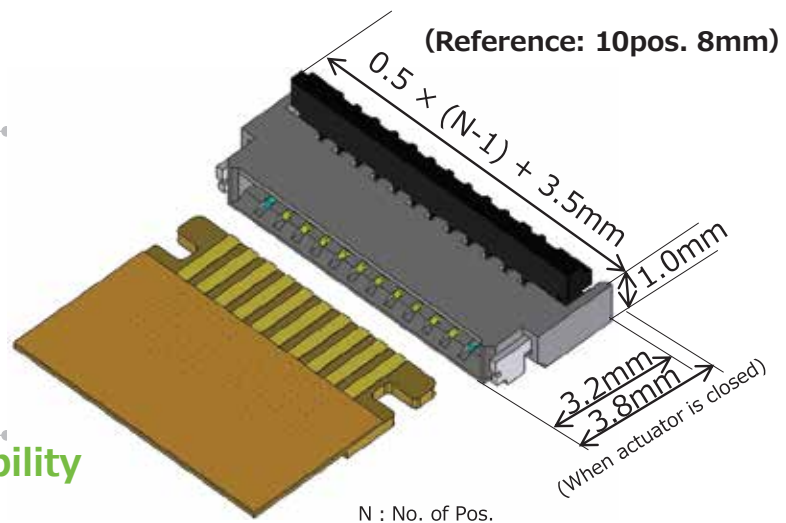
#### Increases FPC Layout Design Flexibility

##### Back Flip

Actuator is delivered in open position.



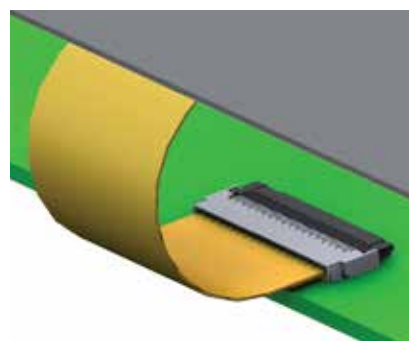
- 0.5mm Pitch
- Light Weight: 0.098g (FH34SRJ-30pos.)
- FPC Thickness: 0.3mm±0.03mm



### Suitable for FPC/FFC Routing

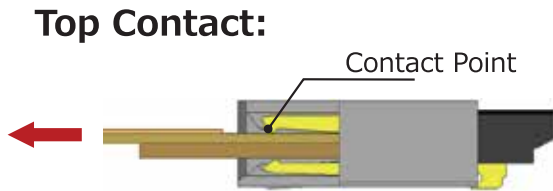
High FPC/FFC retention force in addition to the back flip design allows curved routing of FPC/FFC.

Example : LED Back Light Connection

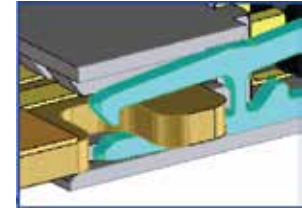


# High FPC/FFC Retention Force

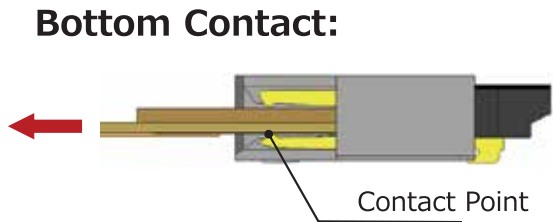
## High FPC/FFC Retention Force with Unique Terminal Design



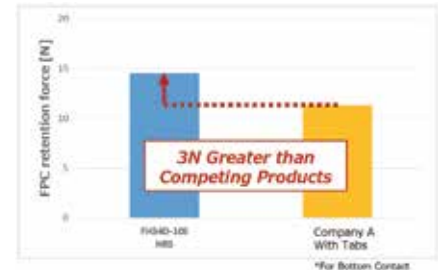
**FH34D  
(With FPC Tabs)**  
**7.8N**



**Lock Contact Securely Holds FPC Tab**



**14.5N**



\*Current as of Dec. for H=1mm, P=0.5mm, Bottom Contact

## Specifications

### MATERIAL AND FINISH

Component	Material	Finish, Remarks
Housing	LCP*	Gray / UL94V-0
Actuator	Polyamide* (8pos.: LCP*)	Black / UL94V-0
Contact, Lock Contact	Phosphor Bronze	Gold plated over Nickel Under Plating
Retention Tab	Phosphor Bronze	Pure Tin Reflow Plated over Copper Under Plating

\*This product satisfies halogen free requirements defined as 900ppm maximum chlorine, 900ppm maximum bromine, and 1500ppm maximum total of chlorine and bromine.

### PERFORMANCE CHARACTERISTICS

Rated Current	0.5A
Rated Voltage	50V AC/DC
Contact Resistance	100mΩ Max. (Includes FPC conductor resistance.)
Withstanding Voltage	250V AC for 1 min.
Insulation Resistance	500MΩ Min. (100V DC)

- No. of Pos.: FH34SRJ: 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 16, 18, 20, 22, 24, 26, 30, 32, 34, 40, 45, 50pos.  
FH34D: 10pos. (Under Development: 4, 6, 8, 12, 14, 16, 20, 24, 30pos.)
- Applicable FPC thickness required at mating area:  $0.3 \pm 0.03\text{mm}$
- Reflow Temperature: 250°C Max.
- Contact HRS for other contact plating types and pin count varieties.
- RoHS complaint, halogen-free product\*



For additional information please go to  
<https://www.hirose.com/product/series/FH34SRJ>  
 Specifications herein are subject to change without notice.  
 Contact Hirose for latest specifications, drawings, or availabilities.

STAY CONNECTED

