



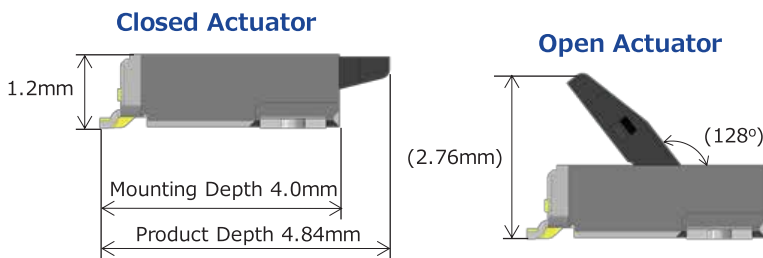
## TF43SW Series

0.5mm Pitch / 1.2mm Height / Bottom Contact,  
 Power & Signal Hybrid FPC/FFC Connector Supporting 12A

### FEATURES:

- ▶ Power & signal hybrid FPC/FFC connector suitable for power line connection
  - 12A (Power contact), 0.5A (Signal contact)
- ▶ Space-saving compared to products with same current rating
- ▶ Prevents actuator separation and unintended actuator opening
- ▶ Enhanced contact reliability by two 2-point contact design
- ▶ Solder wicking prevention by nickel barrier plating
- ▶ Suitable for FPC/ FFC with standard thickness of 0.30±0.03mm

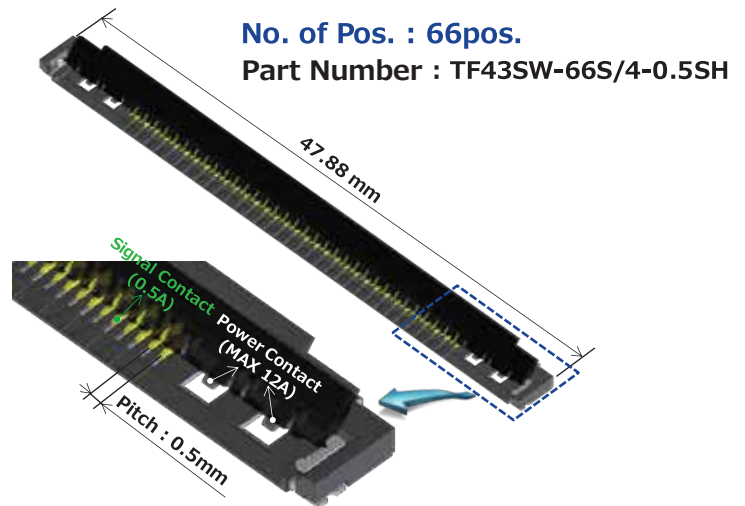
### Dimensions



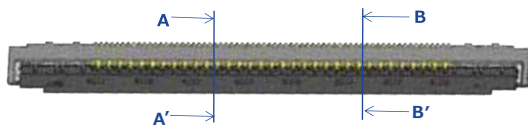
Dimensions

No. of Pos.	Height	Mounting Depth	Length
66pos.	1.2	4.0	47.88

Unit: mm



### Enhanced Contact Reliability



A-A' Section (Contact A)



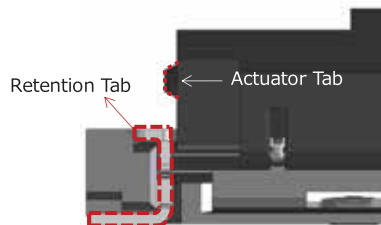
B-B' Section (Contact B)



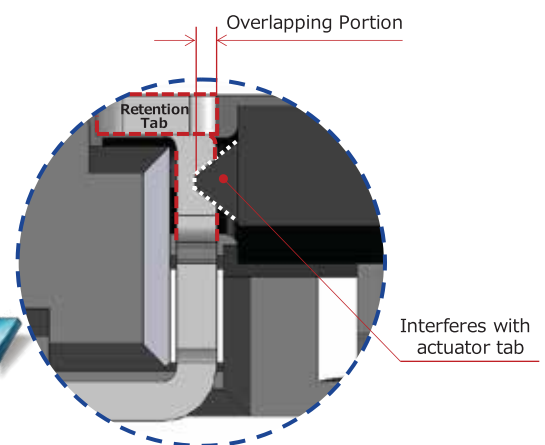
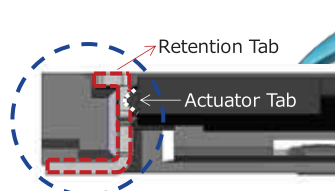
### Prevents Unintended Actuator Opening

#### Unintentional opening prevention design

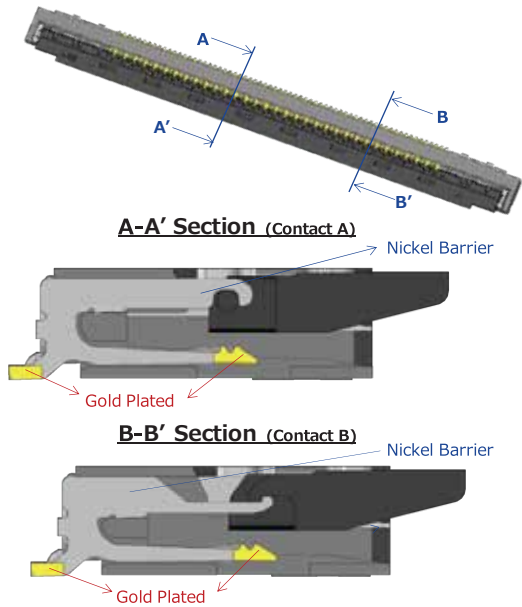
Open Actuator (Front View)



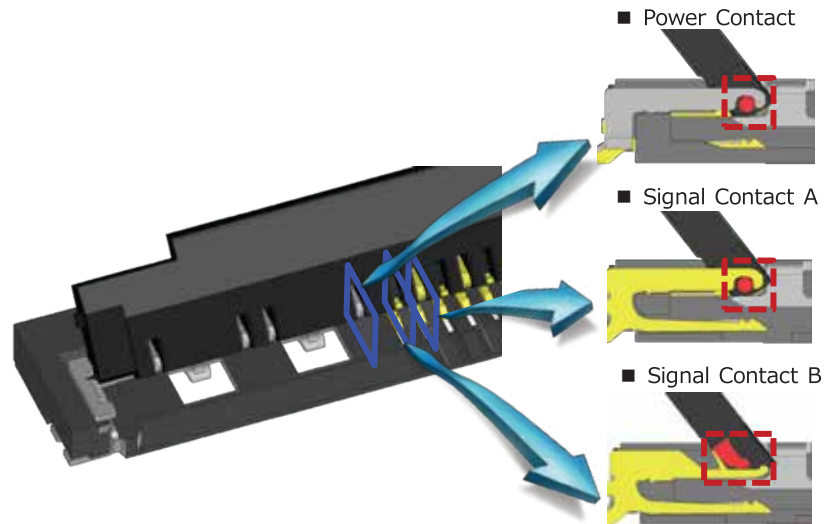
Closed Actuator (Front View)



## Solder Wicking Prevention



## Prevents Actuator Separation by Contacts



## Specifications

### MATERIAL AND FINISH

Component	Material	Finish, Remarks
Housing	LCP*1	UL94V-0, Black
Actuator	PA*1	UL94V-0, Black
Signal Contact	Phosphor Bronze	Gold Plated Over Nickel Underplating
Power Contact	Copper Alloy	Gold Plated Over Nickel Underplating
Retention Tab	Phosphor Bronze	Tin Plated Over Nickel Underplating

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

### PERFORMANCE CHARACTERISTICS

Rated Current	12A (Power Contact), 0.5A (Signal Contact)
Rated Voltage	50V AC/DC
Operating Temperature	-40 to +85°C
Contact Resistance*2	50mΩ Max. (20mV AC Max., 100mA Max.)
Withstanding Voltage	150V AC for 1 min.
Insulation Resistance	500MΩ Min. (100V DC)

- Reflow Temperature : 250°C Max.
- FPC/FFC Thickness : 0.3±0.03mm (Copper Foil = 2oz)
- RoHS, Halogen-free\*1 product

\*2 Including FPC/FFC resistance



For additional information please go to  
<https://www.hirose.com/product/series/TF43SW>  
 Specifications herein are subject to change without notice.  
 Contact Hirose for latest specifications, drawings, or availabilities.

