



Supports MIPI D-PHY
 (1.5Gbps)

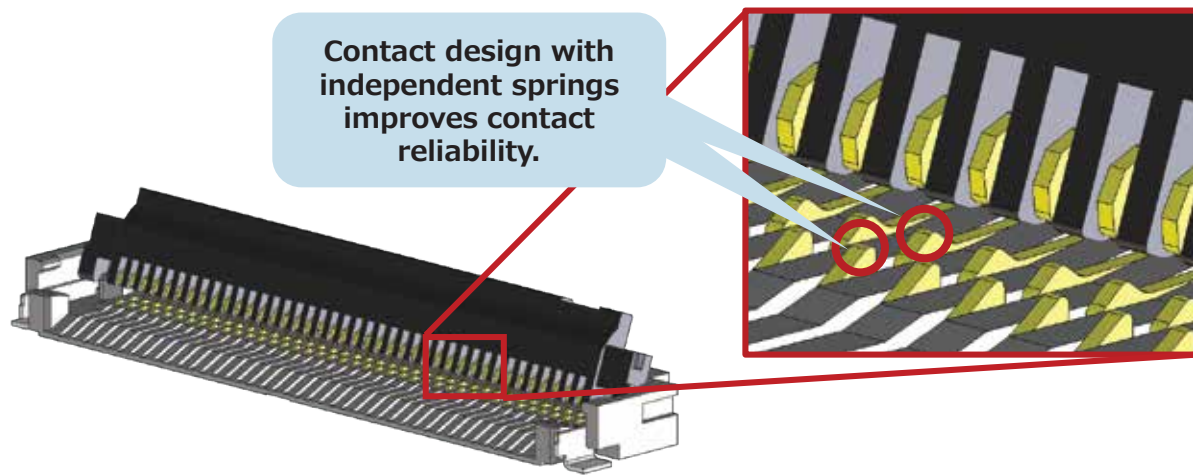
FH75 Series

0.5mm Pitch / 2mm Height, Two-Point Contact,
 125°C Heat Resistance, FPC/FFC Connector

FEATURES:

- ▶ Independent two-point contact prevents contact failure due to dust intrusion.
- ▶ 125°C heat resistant and satisfies severe automotive requirements.
- ▶ PCB and FPC/FFC compatible with Hirose's popular FH52E/K/T.

Independent two point contact prevents contact failure due to dust intrusion
 Highly reliable contact resistant to dust intrusion, shock and vibration.





125°C Heat Resistant
 and Satisfies Severe
 Automotive
 Requirements

Item	Test Methods	Requirements
Mechanical Characteristics	Vibration	Frequency 10 to 55Hz, Half amplitude 0.75mm, 10 cycles in 3 axial directions.
	Shock	981m/s ² , 6ms pulse duration 3 times in 3 axials and both directions.
Environmental Characteristics	Temperature Cycle	Temperature -55→+15 to +35→+125→+15 to +35°C Time 30→2 to 3→30→2-3 min. 1,000 cycles.
	Moisture Resistance	Exposed at 60±2°C, Relative humidity 90-95%, 1,000h.
	Temperature Humidity Test	Exposed at -10 to +65°C, Relative humidity 90-96%, 10 cycles for 240h.
	Dry Heat	Exposed at 125±2°C for 1,000h.
	Cold	Exposed at -55±3°C for 1,000h.
	Corrosion Salt Mist	Exposed at 35±2°C, 5% Salt water spray for 96h.
	Sulfur Dioxide (JIS C 60068-2-42)	Exposed at 40±2°C, Relative humidity 80±5%, 25±5ppm. for 96h.
	Hydrogen Sulfide (JIS C 60068-2-43)	Exposed at 40±2°C, Relative humidity 80±5%, 10-15ppm. for 96h.

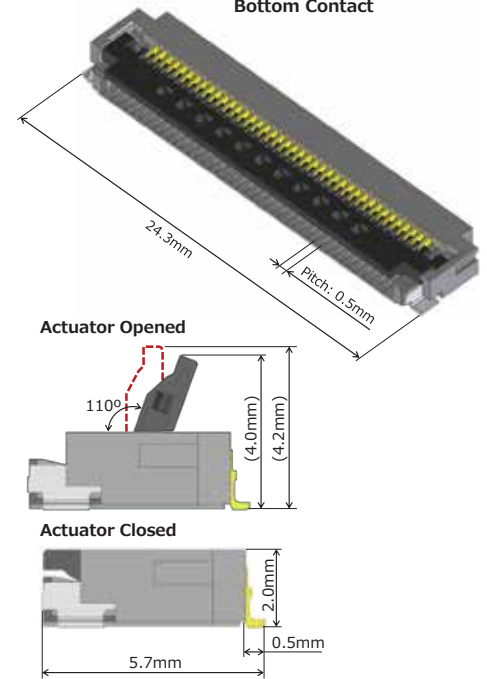


Similar FPC/FFC Connectors for Automotive

Product Name	FH75	FH52K	FH63S	FH65
Product				
Pitch (mm)	0.5	0.5	0.5	0.5
Height (mm)	2.0	2.0	2.8	1.2
Operating Temperature	-40 to +125 °C	-40 to +125 °C	-55 to +125 °C	-40 to +125 °C
Contact Point	Two-Point	One-Point	Two-Point	One-Point
Transmission Standard	MIPI-D PHY (1.5Gbps)	Supported	Supported	Supported
Lock	Flip Lock	Flip Lock	One Action Lock	Flip Lock
Land Pattern	Compatible		FH63S Exclusive	FH65 Exclusive
FPC/FFC Pattern	Compatible		FH63S Exclusive	FH65 Exclusive

Dimensions Example: 40pos.

Product: FH75-40S-0.5SH
FPC/FFC thickness = 0.3±0.05mm
Bottom Contact



Specifications

MATERIAL AND FINISH		
Component	Material	Finish, Remarks
Housing	LCP	UL94V-0 / Gray
Actuator	LCP	UL94V-0 / Black
Contact	Copper Alloy	Contact Area / Mounting Area: Gold Plated Over Nickel Under Plating Other : Nickel Plating
Retention Tab	Brass	Pure Tin Plated Over Nickel Under Plating

PERFORMANCE CHARACTERISTICS	
Rated Current	0.5A
Rated Voltage	50V AC/DC
Operating Temperature	-40 to +125°C
Contact Resistance	50mΩ Max. *Includes FPC/FFC conductor resistance (L=8mm)
Withstanding Voltage	150V AC for 1min.
Insulation Resistance	500MΩ Min. (100V DC)
Mating Durability	20 times

- RoHS, Halogen-free* product
- No. of Pos.: 40pos. (Mass Production)
8, 10, 15, 30, 50, 60, 68, 80pos. (Under Planning)

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



For additional information please go to
<https://www.hirose.com/product/series/FH75>
Specifications herein are subject to change without notice.
Contact Hirose for latest specifications, drawings, or availabilities.

STAY CONNECTED

