

Omron XF2M Series Product Overview



XF2M features

- High-reliability backlock structure
- Superior work efficiency
- 0.5 mm pitch, 2 mm height
- Dual contact
- Applicable for FPC thickness of 0.3 mm



■ Ratings and Specifications

Rated current	0.5A AC/DC
Rated voltage	50V AC/DC
Contact resistance	50mΩ max (at 20mVDC max, 100mA max)
Insulation resistance	100MΩ min. (at 250V DC)
Withstand voltage	250V AC for 1 min (leakage current: 1mA max)
Insertion tolerance	20 times
Ambient operating temperature	-30 to 85°C (with no icing or condensation)

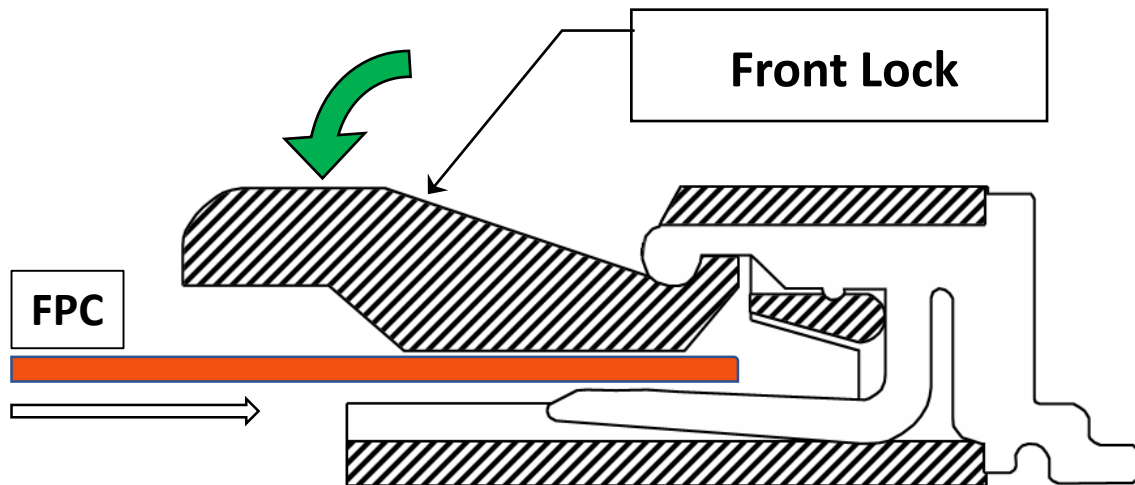
■ Materials and Finish

Housing	LCP resin (UL94V-0)/natural
Slider	LCP resin (UL94V-0)/black
Contacts	Spring copper alloy/nickel substrate (2μm) Gold-plated contacts (1.5μm)
Hold-down	Copper alloy/tin-plated (1.5μm)

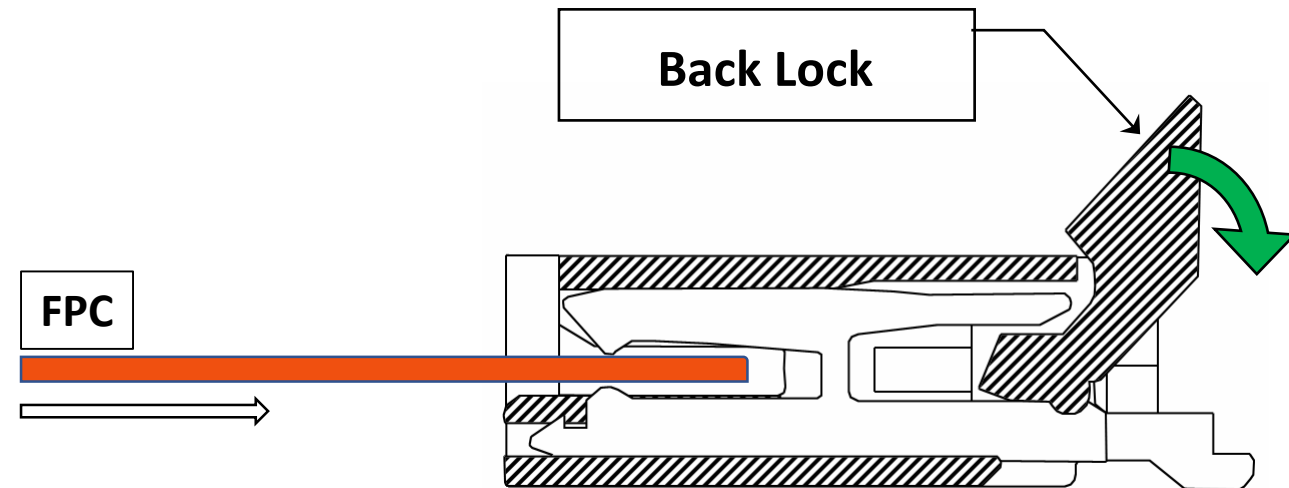
Key Features - Backlock

The lock is located on the opposite side of FPC insert direction

Competitor

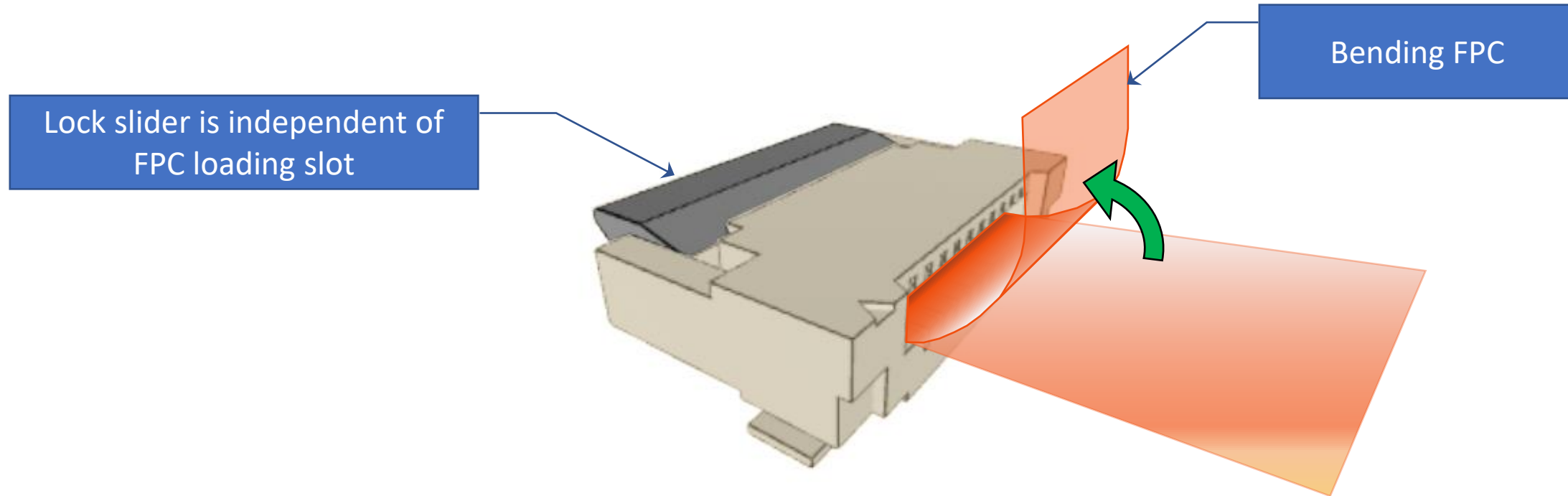


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Features and Benefits

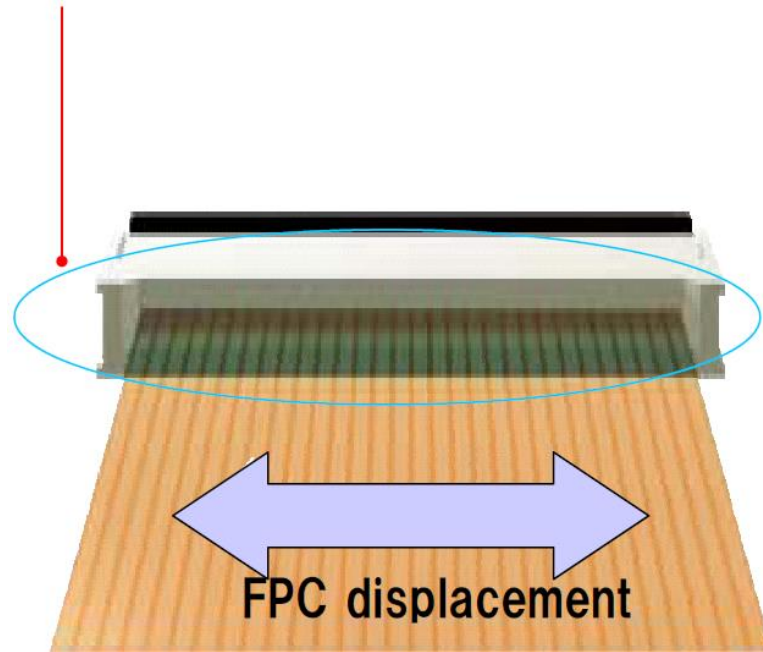
- Strong against bending FPC



The slider will not open accidentally if the FPC is bending

Features and Benefits

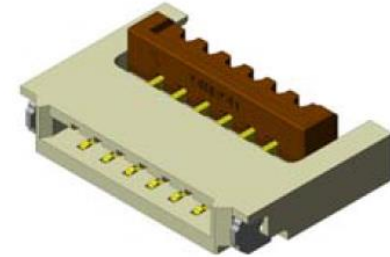
- FPC loading slot has four-sided walls



The four walls allows precise insertion and prevents FPC displacement

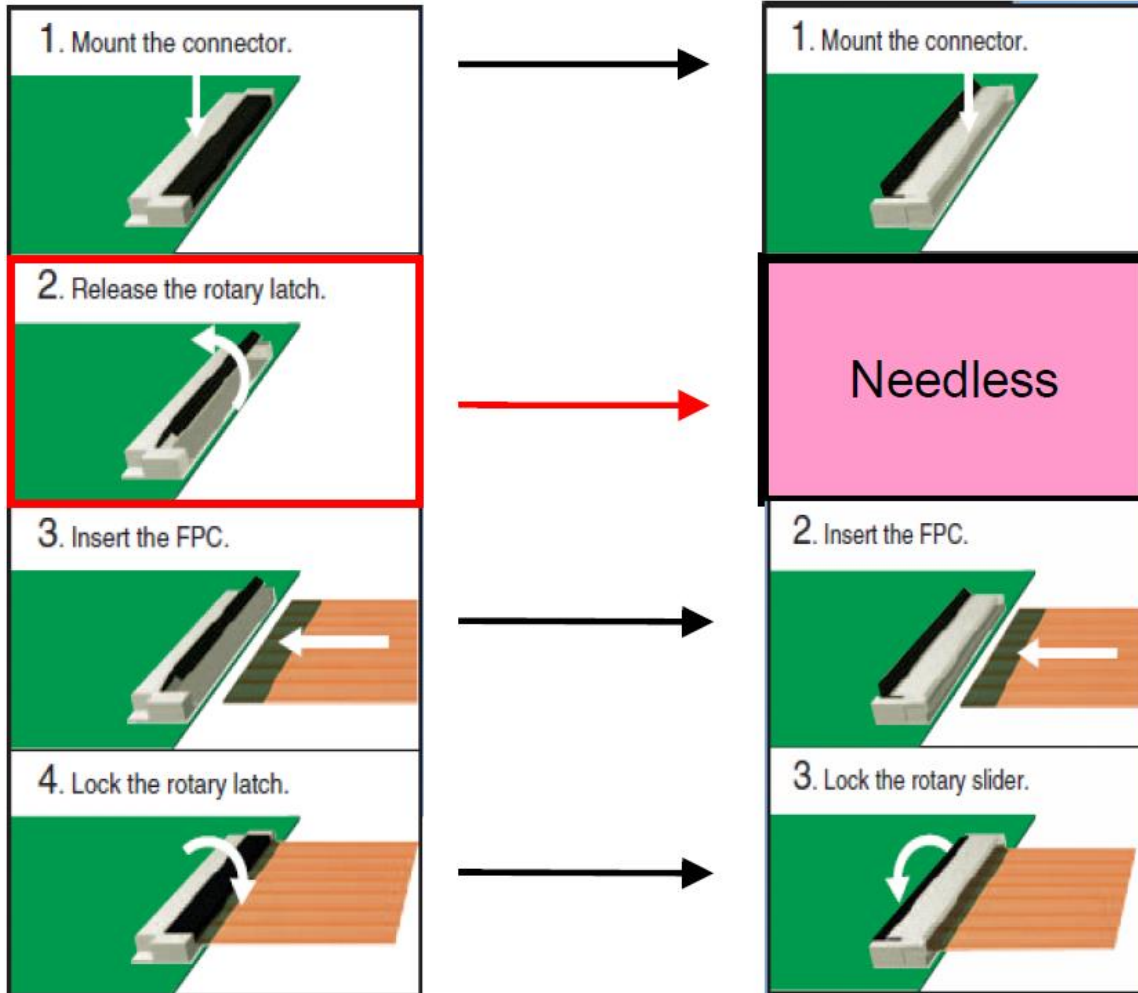
Features and Benefits

- Product delivered with an open lock stage



Front lock assembly steps: 4

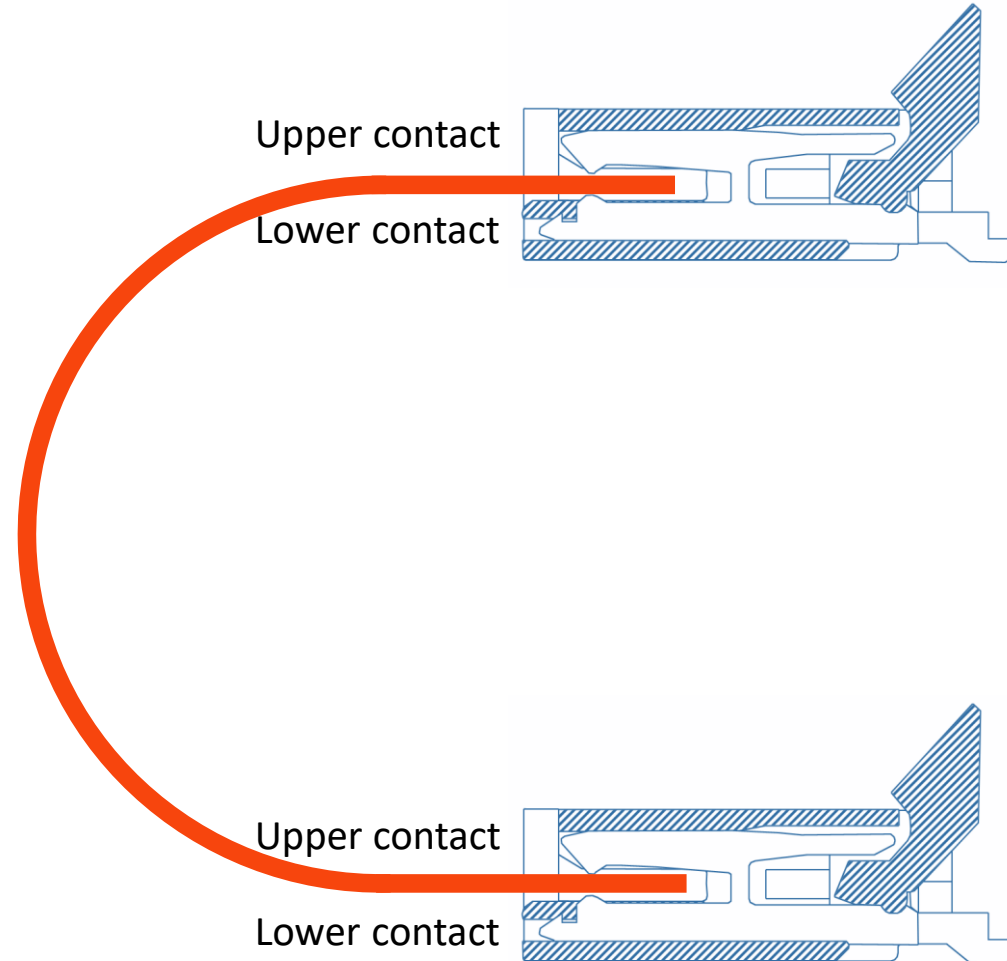
Back lock assembly steps: 3




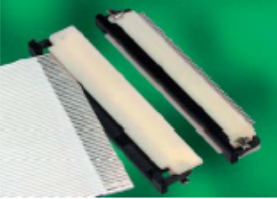
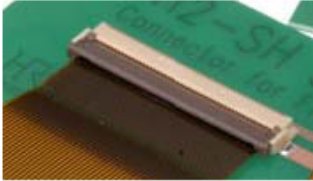








Open lock reduces the number of steps necessary for assembly, reducing production time!

Features and Benefits

- Double sided contacts
 - No need to exclude upper or lower contact due to accidental lock opening



Competitor comparison

	OMRON XF2M 	FCI 6284 OPU 	HIROSE FH12 	MOLEX 54104 Upper 51296 Lower 
Pitch	0.5mm			
FPC Thickness	0.3mm			
Height	2mm			
Number of Contacts	10-60	Upper 32-57 Lower 40-57	Upper 10-50 Lower 6-53	Upper 30-50 Lower 8-50
Contact type	Double-sided contact 	Upper or Lower 	Upper or Lower 	Upper or Lower 
Lock Mechanism	Rotary Backlock 	Slide Lock 	Rotary Front lock 	Upper Slide Lower Rotary Front 