

Rotary Backlock Connector (0.5-mm Pitch, Dual Contact)

For FPC/FFC

Rotary Backlock Mechanism with 0.5-mm Pitch and Low Profile of 1.1 mm

- Two models available: Low profile connector with a depth of 3.5 mm and easy-operation connector with long slider.
- Dual contact reduces the number of parts.
- Wide molding wall on the rear bottom of the connector allows greater freedom in board design.
- Gold plated with an applicable FPC/FFC thickness of 0.3 mm.
- Halogen Free (*)

* OMRON uses the following standard to determine halogen-free construction: 900 ppm max. for Br, 900 ppm max. for Cl, and 1,500 ppm max. for Br+Cl.



RoHS compliant

■ Ratings and Specifications

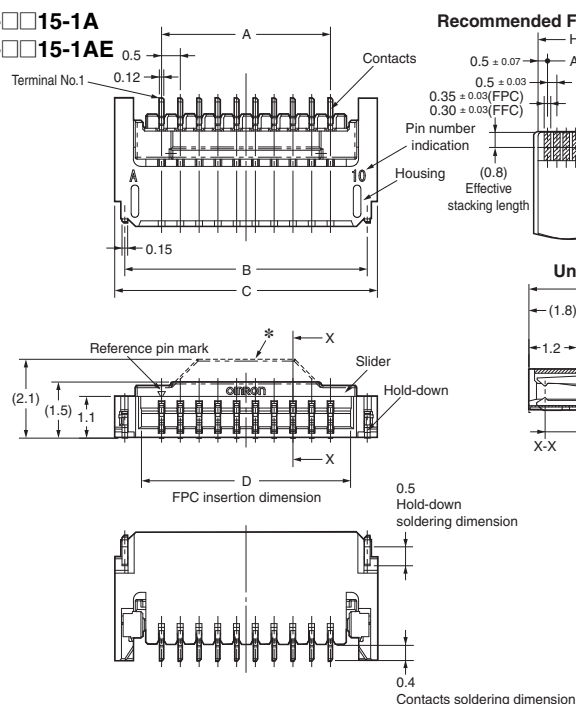
Rated current	0.5 A AC/DC
Rated voltage	50 V AC/DC
Contact resistance	60 mΩ max. (at 20 mV DC max., 100 mA max.)
Insulation resistance	100 MΩ min. (at 250 V DC)
Dielectric strength	250 V AC for 1 min. (leakage current: 1 mA max.)
Insertion durability	20 times
Ambient operating temperature	-30 to 85 °C (With no icing or condensation)

■ Materials and Finish

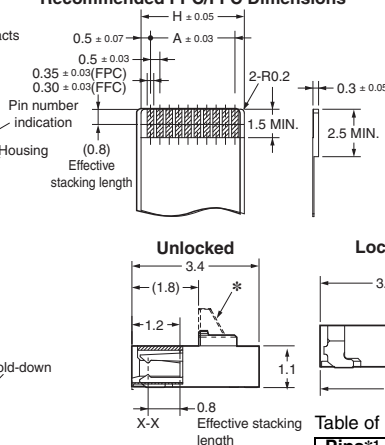
Housing	LCP resin (UL94 V-0)/natural
Slider	LCP resin (UL94 V-0)/brown
Contacts	Spring copper alloy/nickel substrate (2 μm) Gold-plated contacts (0.15 μm)
Hold-down	Copper alloy/tin plating (2 μm)

■ Dimensions

XF2W-□□15-1A
XF2W-□□15-1A



Recommended FPC/FEC Dimensions



PCB Dimensions (TOP VIEW)

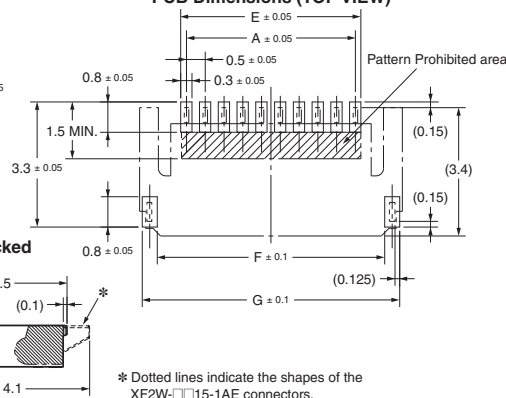


Table of Dimensions

Pins*1	Model	A	B	C	D	E	F	G	H
4	XF2W-0415-1A	1.5	3.5	4.0	2.6	1.8	3.1	3.9	2.5
5	XF2W-0515-1A	2.0	4.0	4.5	3.1	2.3	3.6	4.4	3.0
6	XF2W-0615-1A	2.5	4.5	5.0	3.6	2.8	4.1	4.9	3.5
7	XF2W-0715-1A	3.0	5.0	5.5	4.1	3.3	4.6	5.4	4.0
8	XF2W-0815-1A	3.5	5.5	6.0	4.6	3.8	5.1	5.9	4.5
9	XF2W-0915-1A	4.0	6.0	6.5	5.1	4.3	5.6	6.4	5.0
10	XF2W-1015-1A	4.5	6.5	7.0	5.6	4.8	6.1	6.9	5.5
14	XF2W-1415-1A	6.5	8.5	9.0	7.6	6.8	8.1	8.9	7.5
16	XF2W-1615-1A	7.5	9.5	10.0	8.6	7.8	9.1	9.9	8.5
18	XF2W-1815-1A	8.5	10.5	11.0	9.6	8.8	10.1	10.9	9.5
20	XF2W-2015-1A	9.5	11.5	12.0	10.6	9.8	11.1	11.9	10.5
24	XF2W-2415-1A	11.5	13.5	14.0	12.6	11.8	13.1	13.9	12.5
26	XF2W-2615-1A	12.5	14.5	15.0	13.6	12.8	14.1	14.9	13.5
40	XF2W-4015-1A	19.5	21.5	22.0	20.6	19.8	21.1	21.9	20.5
45	XF2W-4515-1AE	22.0	24.0	24.5	23.1	22.3	23.6	24.4	23.0
50	XF2W-5015-1AE	24.5	26.5	27.0	25.6	24.8	26.1	26.9	25.5
55	XF2W-5515-1AE	27.0	29.0	29.5	28.1	27.3	28.6	29.4	28.0
60	XF2W-6015-1AE	29.5	31.5	32.0	30.6	29.8	31.1	31.9	30.5
64	XF2W-6415-1AE	31.5	33.5	34.0	32.6	31.8	33.1	33.9	32.5

■ Ordering Information

2000pcs per reel

Pins ¹	Model	Pins ¹	Model	Pins ¹	Model	Pins ¹	Model	Quantity per reel (unit) ²
4	XF2W-0415-1A	9	XF2W-0915-1A	20	XF2W-2015-1A	50	XF2W-5015-1AE	2,000
5	XF2W-0515-1A	10	XF2W-1015-1A	24	XF2W-2415-1A	55	XF2W-5515-1AE	
6	XF2W-0615-1A	14	XF2W-1415-1A	26	XF2W-2615-1A	60	XF2W-6015-1AE	
7	XF2W-0715-1A	16	XF2W-1615-1A	40	XF2W-4015-1A	64	XF2W-6415-1AE	
8	XF2W-0815-1A	18	XF2W-1815-1A	45	XF2W-4515-1AE			

100pcs per reel

Pins ¹	Model	Pins ¹	Model	Pins ¹	Model	Pins ¹	Model	Quantity per reel (unit) ²
4	XF2W-0415-1A-R100	9	XF2W-0915-1A-R100	20	XF2W-2015-1A-R100	50	XF2W-5015-1AE-R100	100
5	XF2W-0515-1A-R100	10	XF2W-1015-1A-R100	24	XF2W-2415-1A-R100	55	XF2W-5515-1AE-R100	
6	XF2W-0615-1A-R100	14	XF2W-1415-1A-R100	26	XF2W-2615-1A-R100	60	XF2W-6015-1AE-R100	
7	XF2W-0715-1A-R100	16	XF2W-1615-1A-R100	40	XF2W-4015-1A-R100	64	XF2W-6415-1AE-R100	
8	XF2W-0815-1A-R100	18	XF2W-1815-1A-R100	45	XF2W-4515-1AE-R100			

*1. Please consult your OMRON representative for available pin count.

*2. Please order by integer multiple of the quantity per reel.