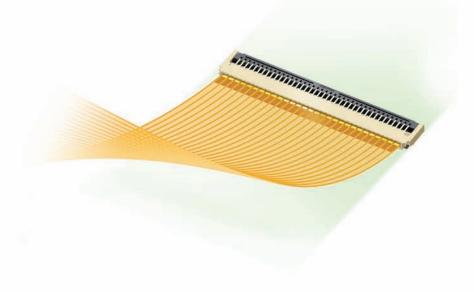


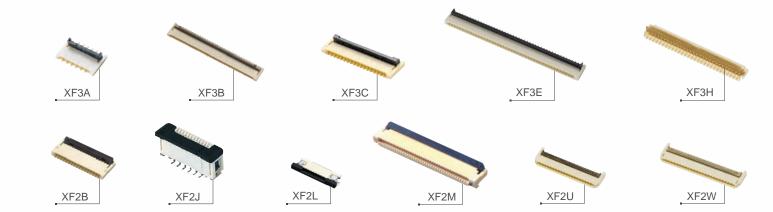


OMRON



Connect to your future Applications.





FPC See How Far FPC Connectors Have Advanced

INDEX

Product Overview

Model	Lock mechanism	Pitch	On-board height	Depth (*4)	Applicable FPC/ FFC thickness	Contact type	Page
XF3C	Rotary backlock	0.25mm	0.85mm	3.8mm	0.12mm	Dual contact	P6
XF3A	Rotary backlock	0.3mm	0.6mm	3.8mm	0.12mm	Upper contact	P7
XF3B	Rotary backlock	0.3mm	0.9mm	4.0mm *3	0.2mm	Dual contact	P 8
XF3E	Rotary backlock	0.3mm	1.1mm	4.3mm	0.2mm	Dual contact	P 9
XF2B	Rotary backlock	0.3mm	1.2mm	5.5mm	0.2mm	Dual contact *1	P10
XF3H	Rotary frontlock	0.3mm	0.9mm	3.5mm	0.2mm	Lower contact	P11
XF2U	Rotary backlock	0.5mm	0.9mm	3.5mm	0.2mm	Dual contact	P12
XF2W	Rotary backlock	0.5mm	1.1mm	3.5mm *3	0.3mm	Dual contact	P13
XF2M	Rotary backlock	0.5mm	2.0mm *2	5.9mm *2	0.3mm	Dual contact	P14
XF2L	Slide lock	0.5mm	1.2mm	3.45mm	0.3mm	Upper/lower contact	P15
XF2J	Slide lock	0.5mm	4.15mm *5	3.45mm	0.3mm	Single-sided contact	P16

*1: Models with 61 pins have upper contacts.

*2: Dimensions of multiple type is different.

*3: 4.1 mm for more than 45 pins.

*4: These are latch closed dimension.

*5: 4.25 mm for 40 pins.

* Use this legend when determining the product specifications from the model number. Model Number Legend Choose from the model numbers listed in this catalog when ordering. XFDI (1)(3) (4)(2)

- (1) Classification in Series 2B, 2J, 2L, 2M, 2U, 2W, 3A, 3B, 3C, 3E, 3H
- (2) Number of Signal Contact Pins
- (3) Signal Contact Arrangement 1: One-row, double-sided contact 2: One-row, single-sided contact
 - (including upper contact and top entry)
- 3: One-row, single-sided contact (lower contact) 4: Two-row, double-sided contact

(5) (6) (7)

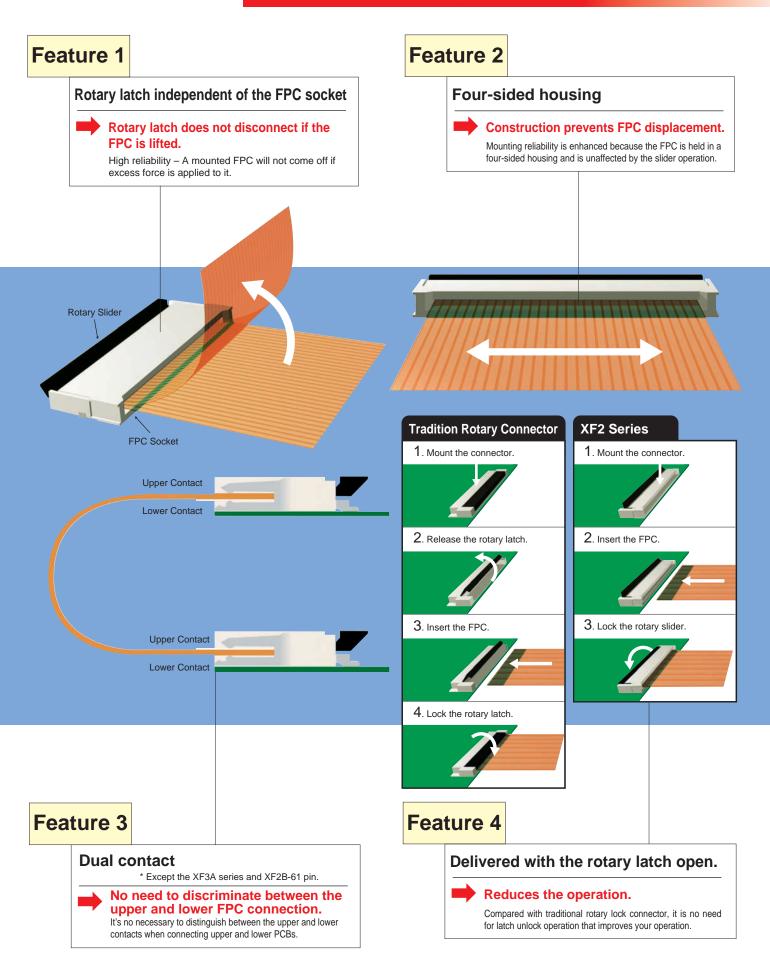
- 5: Two-row, single-sided contact
- (4) Terminal Shape 4: SMT terminals (top entry) 5: SMT terminals
 - (side entry)
- (5) Applicable FPC thickness 1:0.3mm 3: 0.2mm 4: 0.12mm
 - 5: 0.15mm

(8)

- (6) Terminal Arrangement □: Standard
 - 1: Staggered arrangement (forward arrangement)
 - 2: Staggered arrangement (backward arrangement)
- (7) Plating A: Au
- (8) Special Correspondence R100: 100pcs *Only XF2M, XF2W
 - E: Easy lock type
 - H: For multiple pins



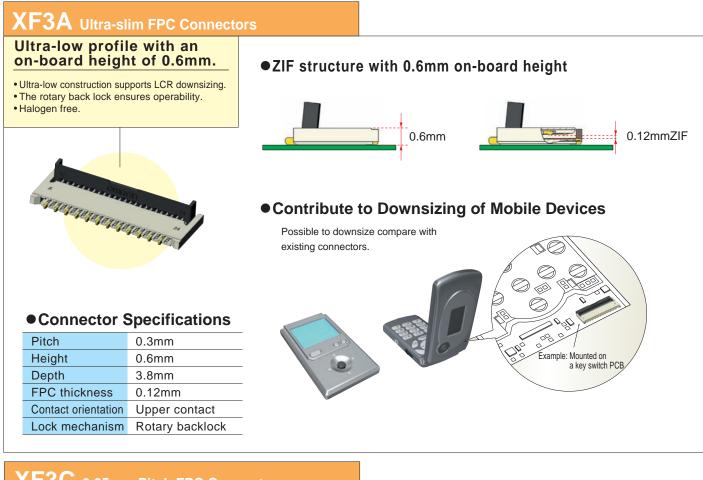
Features of Rotary Backlock Mechanism



See How Far FPC Connectors Have Advanced

Introduction of Product

OMRON delivers cutting-edge innovative products a step ahead of customer needs. Please look forward to the continuing development of our new products.



XF3C 0.25mm Pitch FPC Connector

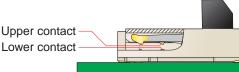
0.25mm pitch Dual contact type

- · Contributing to miniature mobile Devices.
- Dual contact reduces the number of parts. • The rotary backlock ensures operability.
- Halogen free.

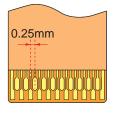


 Connector Specifications 				
Pitch	0.25mm			
Height	0.85mm			
Depth	3.8mm			
FPC thickness	0.12mm			
Contact orientation	Dual contact			
Lock mechanism	Rotary backlock			

• Dual contact connector with 0.25mm pitch



• Single sided FPC with an applicable thickness of 0.12mm





Decreased 20% of mounting area, compared with our 0.3mm pitch connector



Compare with 0.3 mm pitch connector size



0.25 mm Pitch with Dual contact and Rotary Backlock Mechanism

- Wide molding wall on the rear bottom of the connector allows greater freedom in board design.
- Dual contact.
- Single sided FPC with an applicable thickness of 0.12 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	0.2 A AC/DC
Rated voltage	50 V AC/DC
Contact resistance	80 m Ω 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)

-0.1

-0.1

Dimensions

XF3C-045-41A

(1.25)

-0.5

0.25

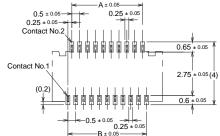


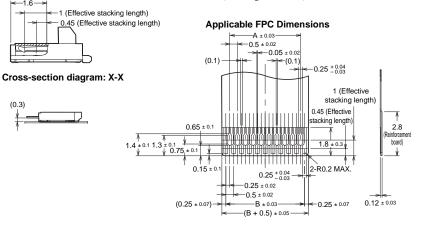
For FPC

Materials and Finish

Housing	LCP resin (UL94V-0)/natural
Slider	LCP resin (UL94V-0)/black
Contacts	Spring copper alloy/nickel substrate (2 μm) Gold-plated contacts (0.15 μm)

PCB Dimensions (TOP VIEW)





omron 21 _______ 0.85 ĹX

Table of Dimensions

Reference pin mark

Pins ^{* 1}	Model	Α	В	С	D
17	XF3C-1745-41A	3.5	4.0	6.0	4.55
19	XF3C-1945-41A	4.0	4.5	6.5	5.05
23	XF3C-2345-41A	5.0	5.5	7.5	6.05
25	XF3C-2545-41A	5.5	6.0	8.0	6.55
35	XF3C-3545-41A	8.0	8.5	10.5	9.05
45	XF3C-4545-41A	10.5	11.0	13.0	11.55
51	XF3C-5145-41A	12.0	12.5	14.5	13.05
59	XF3C-5945-41A	14.0	14.5	16.5	15.05

Ordering Information

Pins ^{* 1}	Model	Quantity per reel (unit) * 2
17	XF3C-1745-41A	
19	XF3C-1945-41A	
23	XF3C-2345-41A	
25	XF3C-2545-41A	2.000
35	XF3C-3545-41A	2,000
45	XF3C-4545-41A	
51	XF3C-5145-41A	
59	XF3C-5945-41A	

* 1. Please consult your OMRON representative for;

- · Available pin count
- · Release date of pin count with bracket
- * 2. Please order by integer multiple of the quantity per reel.

XF3C

OMRON

3.8

0.4 3.6

 \square

(1.6)

(2.1)

0.35

1.6

(0.3)

3.2

Pin number

ndication

01

50 V AC/DC		Slic
80 m Ω max. (at 20 mV DC max., 100 mA max.)	Ī	Со
100 MΩ min. (at 250 V DC)		00
250 V AC for 1 min. (leakage current: 1 mA max.)		

Dimensions

Rated voltage Contact resistance Insulation resistance **Dielectric strength** Insertion durability

0.3-mm pitch.

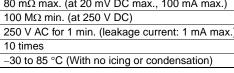
Ratings and Specifications

Rated current 0.2 A AC/DC

in board design. • Upper Contact • Halogen Free (*)

RoHS compliant

XF3A-0055-41A



On-board height 0.6 mm, the lowest

Rotary Backlock Connectors with a

• Wide molding wall on the rear bottom of the connector allows greater freedom

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.

class profile in the industry.

Materials and Finish

Housing	LCP resin (UL94V-0)/natural
Slider	LCP resin (UL94V-0)/black
Contacts	Spring copper alloy/nickel substrate (2 μm) Gold-plated contacts (0.15 μm)



Ambient operating temperature PCB Dimensions (TOP VIEW) (0.12) D ± 0.03 -0.60 ± 0.03 -0.30 ± 0.03 -0.30 ± 0.02 12 Þ 0.75 ± 0.03 Ŧ 3.80 2.15 ± 0.03 (0.12) Cross-section diagram: X-X 3.10 (1.7) 0.75±0.03 -Ð 1 (Effective stacking length) 56) 0.45 (Effective stacking length) omkon -0.30 ± 0.02 (0.10) $C \pm 0.03$ Pin number indication (0.45) Applicable FPC Dimensions Reference pin mark FPC insertion dimension 3.40 -E ± 0.05 Unlocked -C ± 0.03-0.30 ± 0.07 -D ± 0.03-.15 ± 0.1 0.65 ± 0.1 -0.60 ± 0.02 Г 0.60 -0.30 ± 0.02 -0.12 ± 0.03 3 80 R0.20 max 0.75 ± 0.1 = 1.40 ± 0.1 ֎֎֎֎ ←0.30 ± 0.03 Ý 1 (Effective ing length) 1.50 stacki 2 min. Reinforcement Locked min. -__₩_ 0.45 board) -0.10 ± 0.03 -0.10 ± 0.03 0.30 0.60 0.30 ± 0.03

Table of Dimensions

Pins ^{* 1}	Model	Α	В	C * 3	D	Ε	F
8	XF3A-0855-41A	3.8	2.75	2.1	1.8	2.7	3.1
12	XF3A-1255-41A	5.0	3.95	3.3	3.0	3.9	4.3
17	XF3A-1755-41A	6.5	5.45	4.8	4.2	5.4	5.8
23	XF3A-2355-41A	8.3	7.25	6.6	6.0	7.2	7.6
25	XF3A-2555-41A	8.9	7.85	7.2	6.6	7.8	8.2
51	XF3A-5155-41A	16.7	15.65	15.0	14.4	15.6	16.0

Ordering Information

Pins ^{* 1}	Model	Quantity per reel (unit) * 2
8	XF3A-0855-41A	
12	XF3A-1255-41A	
17	XF3A-1755-41A	1 000
23	XF3A-2355-41A	4,000
25	XF3A-2555-41A	
51	XF3A-5155-41A	

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

 -0.20 ± 0.03

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

3. Dimension C indicates total pitch.

For FPC

Rotary Backlock Connector (0.3-mm Pitch, Dual Contact)

Compact body (with a low profile of just 0.9 mm) supports the applicable FPC thickness of 0.2 mm.

- Wide molding wall on the rear bottom of the connector allows greater freedom in board design.
- Dual contact model to enhance the contact structure of lower contact.
- Gold plated with an applicable FPC thickness of 0.2 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	0.2 A AC/DC
Rated voltage	50 V AC/DC
Contact resistance	80 m Ω 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)

-0.12

3.4

01

0.9

B* 4 С

2.1

14.4 15.0 17.2 15.65

19.2 19.8 22.0 20.45

Cross-section diagram: X-X

Locked

(2.3)

(2.3)

⊷0.35

D

4.3 2.75

7.6 6.05

9.4 7.85

3.8

4.5

0.4

* Dotted lines indicate the shape and dimensions

of the XF3B-0045-31AE connectors.

1.1 (Effective stacking length)

0.55 (Effective stacking length)

-0.12

1988988

Α

1.8

4.8 5.4

6.6 7.2 9.6 10.2 12.4 10.85

B

- D

FPC insertion dimension

Dimensions

XF3B-0045-31A XF3B-0045-31AE

-(1.4)

0.6

 ∇ OMROF

Model^{* 1}

XF3B-0845-31A

XF3B-1945-31A

XF3B-2545-31A

XF3B-3545-31A

XF3B-5145-31AE

XF3B-6745-31AE

(1.1)

0.3

,0.6

* 1. The end of the model number indicates the slider specification.

- None: Standard type E: Easy lock type
- * 2. Please consult your OMRON representative for available pin count.
- * 3. Please order by integer multiple of the quantity per reel.

1.4 ± 0.1

1.45 ± 0.1

0.85 ± 0.1

0.75 ± 0.1 0.25 ± 0.

 $(0.3) \pm 0.07$

* 4. Dimension B indicates total pitch.

Materials and Finish

Housing	ing LCP resin (UL94V-0)/natural		
Slider	LCP resin (UL94V-0)/brown		
Contacts	Spring copper alloy/nickel substrate (2 μm) Gold-plated contacts (0.15 μm)		

PCB Dimensions (TOP VIEW)

-B ± 0.05

Applicable FPC Dimensions

A ± 0.03

-0.1 ± 0.02 -(0.2)

Helekekekekekek

-B ± 0.03

(B + 0.6) ± 0.05

0.3

 $+0.3 \pm 0.02$

- 0.6 ± 0.02

(0.2)

0.3 ± 0.05 0.65 ± 0.05

0.3 ± 0.05

(4.2)

2.95 ± 0.0

0.6 ± 0.05

-0.3 + 0.04 - 0.03

0.55 (Effective tacking length

2-R0.2 MAX

 $T = 0.2 \pm 0.03$

(Conductive plating)

-0.3 ± 0.07

1.1 (Effective stacking length)

2 ± 0.3

board

⊢0.2 ± 0.03

Ţ.

 0.6 ± 0.05

 0.3 ± 0.05

(0.2)

ŧ

 0.6 ± 0.02

0.6 ± 0.0



Pins ^{* 2}	Model ^{* 1}	Quantity per reel (unit) * 3
8	XF3B-0845-31A	2,000
19	XF3B-1945-31A	2,000
25	XF3B-2545-31A	2,000
35	XF3B-3545-31A	2,000
51	XF3B-5145-31AE	1,500
67	XF3B-6745-31AE	1,500

(2.1)

Pins^{* 2}

8

19

25

35

51

67

8

(1.6)

Table of Dimensions



For FPC

Large number of contacts with 0.3-mm Pitch and 1.1-mm On-board Height

- Rotary Backlock Connector.
- Dual contact.
- Gold plated with an applicable FPC thickness of 0.2 mm.
- Halogen Free (*)
- OMRON uses the following standard to determine halogen-free construction: 900 ppm max. for Br, 900 ppm max. for CI, and 1,500 ppm max. for Br+CI.

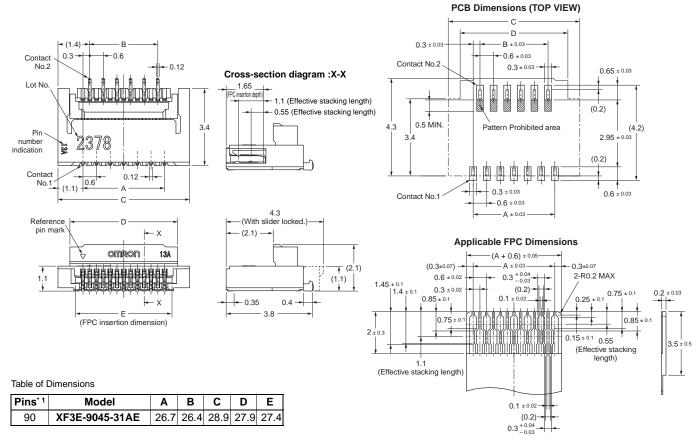
RoHS compliant

Ratings and Specifications

Rated current	0.2 A AC/DC	
Rated voltage	50 V AC/DC	
Contact resistance	80 m Ω 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)	

Dimensions

XF3E-0045-31AE



Ordering Information

Pins ^{* 1}	Model	Quantity per reel (unit) * 2	*
90	XF3E-9045-31AE	1,500	

Please consult your OMRON representative for available pin count.
 Please order by integer multiple of the quantity per reel.



Materials and Finish

Housing	LCP resin (UL94V-0)/natural				
Slider	LCP resin (UL94V-0)/black				
Contacts	Spring copper alloy/nickel substrate (2 μm) Gold-plated contacts (0.15 μm)				





For FPC

Rotary Backlock Mechanism with 0.3-mm Pitch

• Wide molding wall on the rear bottom of the connector allows greater freedom in board design.

- Dual contact reduces the number of parts.
- Gold plated with an applicable FPC thickness of 0.2 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	0.2 A AC/DC		
Rated voltage	50 V AC/DC		
Contact resistance	50 m Ω 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)		



XF2B-005-31A

XF2B

17

21

23

25

27

31

33

35

39

41

45

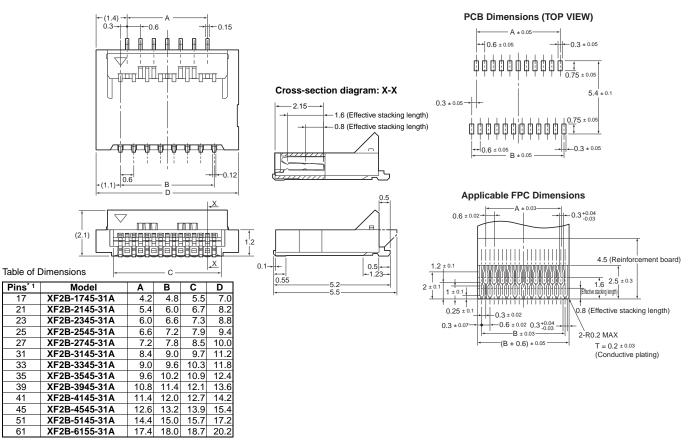
51

61



Materials and Finish

Housing	LCP resin (UL94V-0)/natural
Slider	LCP resin (UL94V-0)/black
Contacts	Spring copper alloy/nickel substrate (2 μm) Gold-plated contacts (0.15 μm)



Ordering Information

Pins ^{* 1}	Model	Pins ^{* 1}	Model	Quantity per reel (unit) * 2
17	XF2B-1745-31A	35	XF2B-3545-31A	
21	XF2B-2145-31A	39	XF2B-3945-31A	
23	XF2B-2345-31A	41	XF2B-4145-31A	
25	XF2B-2545-31A	45	XF2B-4545-31A	1,500
27	XF2B-2745-31A	51	XF2B-5145-31A	
31	XF2B-3145-31A	61	XF2B-6155-31A* 3	
33	XF2B-3345-31A	-	-	

- * 1. Please consult your OMRON representative for available pin count.
- * 2. Please order by integer multiple of the quantity per reel.
- * 3. Upper contact.



Rotary Frontlock Connector (0.3-mm Pitch, Lower Contact)

Side with even number of contacts

N-NULIN-NL

Slider

0.12

Ш

С

FPC insertion dimension

в

Housing

1.1

Pin number indication

0.5

Soldering

dimension

0.12

(0.45)

Rotary Frontlock Mechanism with a Depth of 3.5-mm and Low Profile of 0.9 mm

- Ultra-slim connector with a depth of 3.5 mm.
- Wide molding wall on the rear bottom of the connector allows greater freedom in board design.
- Slider open locking mechanism makes work efficient.
- Gold plated with an applicable FPC thickness of 0.2 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	0.2 A AC/DC		
Rated voltage	50 V AC/DC		
Contact resistance	80 m Ω 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)		

Re

0.6

0.3

0.9

Soldering

0.3

dimo

- 1.5 (Effective stacking

length)

05

0.3

(125°)

rence pin mark

Dimensions

XF3H- 55-31A

Locked

3.2

Unlocked

0.8

(Effective length)

0.3

(2)

0.25

2.1



and the second second

Housing	LCP resin (UL94V-0)/natural			
Slider	LCP resin (UL94V-0)/brown			
	Spring copper alloy/nickel substrate (2 μm) Gold-plated contacts (0.15 μm)			

(0.2) 0.65 ± 0.05

> 2.15 ± 0.05 (3.6)

0.8 ± 0.05



(0.2) 0.3 ± 0.05-± 0.05 **Applicable FPC Dimensions** -E ± 0.05

PCB Dimensions (TOP VIEW)

- 0.3 ± 0.05

B ± 0.05

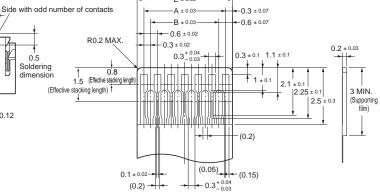


Table of Dimensions

Pins ^{* 1}	Model	Α	В	С	D	Е
13	XF3H-1355-31A	3.6	3.0	5.4	4.23	4.2
25	XF3H-2555-31A	7.2	6.6	9.0	7.83	7.8
31	XF3H-3155-31A	9.0	8.4	10.8	9.63	9.6
35	XF3H-3555-31A	10.2	9.6	12.0	10.83	10.8
39	XF3H-3955-31A	11.4	10.8	13.2	12.03	12.0
41	XF3H-4155-31A	12.0	11.4	13.8	12.63	12.6
45	XF3H-4555-31A	13.2	12.6	15.0	13.83	13.8
51	XF3H-5155-31A	15.0	14.4	16.8	15.63	15.6
57	XF3H-5755-31A	16.8	16.2	18.6	17.43	17.4
61	XF3H-6155-31A	18.0	17.4	19.8	18.63	18.6

Ordering Information

	-				
Pins ^{* 1}	Model	Pins ^{*1}	Model	Quantity per reel (unit) *2	
13	XF3H-1355-31A	41	XF3H-4155-31A		
25	XF3H-2555-31A	45	XF3H-4555-31A		
31	XF3H-3155-31A	51	XF3H-5155-31A	3,000	
35	XF3H-3555-31A	57	XF3H-5755-31A		
39	XF3H-3955-31A	61	XF3H-6155-31A		

- * 1. Please consult your OMRON representative for available pin count.
- * 2 Please order by integer multiple of the quantity per reel.



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

Rotary Backlock Mechanism with a Depth of 3.5-mm and Low Profile of 0.9 mm

- Ultra-slim connector with a depth of 3.5 mm.
- 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 thickness of 0.2 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 m Ω 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)

Dimensions

XF2U-0015-3A Applicable FPC Dimensions PCB Dimensions (TOP VIEW) 0.5 (D-0.1) ± 0.05 Contacts 0.12 F A ± 0.03 0.5 ± 0.07 A ± 0.05 Pin number 0.5 ± 0.03 0.5 ± 0.05 Pattern Prohibited area -0.2 ± 0.03 0.3 ± 0.05 -0.35 ± 0.03 indication 2-R 0.2 0.8 (Effective Housing stacking length) in'n'n'n'n' 1.5 MIN 0.8 + 0.05 2.5 MIN. (0.15) 1.5 MIN ||3.3 ± 0.05 (3.4) 0.15 (0.15) 0.8 ± 0.05 Reference pin mark 3.4 +01 -(2) (0.125) Slide omkon 🗆 12 G ± 0.1 (1.4) Table of Dimensions 0.9 Pins^{* 1} Model A B C D E F G X XF2U-0415-3A 4 1.5 3.5 4.0 2.6 1.8 3.1 3.9 D +0.8+ Hold-down FPC insertion dimension (Effective stacking length) XF2U-0615-3A 4.5 5.0 3.6 2.8 6 2.5 4.1 4.9 soldering Hold-down Cross-section diagram: X-X 8 XF2U-0815-3A 3.5 5.5 6.0 4.6 3.8 5.1 5.9 dimension Unlocked 11 XF2U-1115-3A 5.0 7.0 7.5 6.1 5.3 6.6 7.4 XF2U-1415-3A 6.5 8.5 9.0 7.6 6.8 8.1 8.9 14 XF2U-1815-3A - 3.5 8.5 10.5 11.0 9.6 8.8 10.1 10.9 18 XF2U-2015-3A -(0.1) 20 9.5 11.5 12.0 10.6 9.8 11.1 11.9 (3 24 XF2U-2415-3A 11.5 13.5 14.0 12.6 11.8 13.1 13.9 0.9 XF2U-2715-3A 13.0 15.0 15.5 14.1 13.3 14.6 15.4 27 14.5 16.5 17.0 15.6 14.8 16.1 16.9 30 XF2U-3015-3A Locked XF2U-3215-3A 15.5 17.5 18.0 16.6 15.8 17.1 17.9 32 0.440 XF2U-4015-3A 19.5 21.5 22.0 20.6 19.8 21.1 21.9

Contacts soldering dimension

12

Ordering Information

	Madal	
Pins ^{* 1}	Model	Quantity per reel (unit)* 2
4	XF2U-0415-3A	
6	XF2U-0615-3A	
8	XF2U-0815-3A	
11	XF2U-1115-3A	
14	XF2U-1415-3A	
18	XF2U-1815-3A	3.000
20	XF2U-2015-3A	3,000
24	XF2U-2415-3A	
27	XF2U-2715-3A	
30	XF2U-3015-3A	
32	XF2U-3215-3A	
40	XF2U-4015-3A	

* 1. Please consult your OMRON representative for available pin count.
* 2. Please order by integer multiple of the quantity per reel.

Materials and Finish

Housing	LCP resin (UL94V-0)/natural
Slider	LCP resin (UL94V-0)/black
Contacts	Spring copper alloy/nickel substrate (2 μm) Gold-plated contacts (0.15 μm)
Hold-down	Spring copper alloy/fused-tin plating (2 μm)



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

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

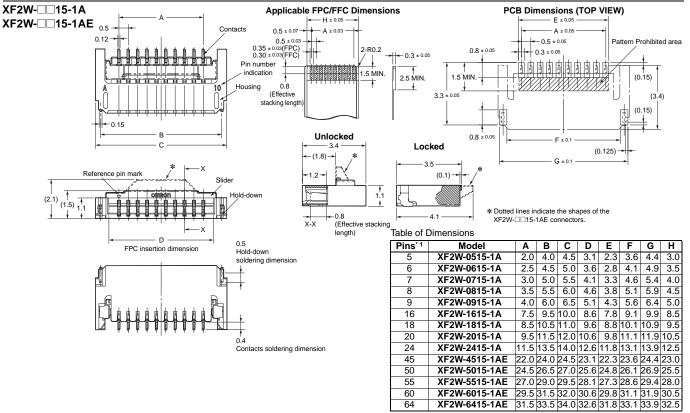
Ratings and Specifications

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)

For FPC/FFC

Materials and Finish

Housing	LCP resin (UL94V-0)/natural
Slider	LCP resin (UL94V-0)/brown
Contacts	Spring copper alloy/nickel substrate (2 μm) Gold-plated contacts (0.15 μm)
Hold-down	Spring copper alloy/fused-tin plating (2 µm)



Ordering Information

100pcs p	er reel					
Pins ^{*1}	Model	Pins ^{*1}	Model	Pins ^{*1}	Model	Quantity per reel (unit) *2
5	XF2W-0515-1A-R100	16	XF2W-1615-1A-R100	50	XF2W-5015-1AE-R100	
6	XF2W-0615-1A-R100	18	XF2W-1815-1A-R100	55	XF2W-5515-1AE-R100	
7	XF2W-0715-1A-R100	20	XF2W-2015-1A-R100	60	XF2W-6015-1AE-R100	100
8	XF2W-0815-1A-R100	24	XF2W-2415-1A-R100	64	XF2W-6415-1AE-R100	
9	XF2W-0915-1A-R100	45	XF2W-4515-1AE-R100			

2000pcs per reel

Pins ^{* 1}	Model	Pins ^{* 1}	Model	Quantity per reel (unit) *
5	XF2W-0515-1A	20	XF2W-2015-1A	
6	XF2W-0615-1A	24	XF2W-2415-1A	
7	XF2W-0715-1A	45	XF2W-4515-1AE	
8	XF2W-0815-1A	50	XF2W-5015-1AE	2,000
9	XF2W-0915-1A	55	XF2W-5515-1AE	
16	XF2W-1615-1A	60	XF2W-6015-1AE	
18	XF2W-1815-1A	64	XF2W-6415-1AE	

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

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

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

For FPC/FFC

High-reliability rotary-lock and Superior Work Efficiency.

• Dual contact reduces the number of parts. 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	50 m Ω 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)

Dimensions

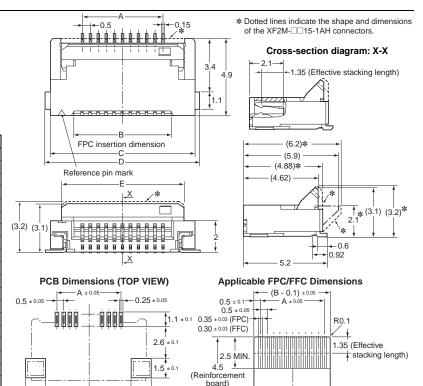
XF2M-015-1A XF2M-0015-1AH

Table of Dimensions



Materials and Finish

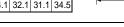
Housing	LCP resin (UL94V-0)/natural
Slider	LCP resin (UL94V-0)/black
Contacts	Spring copper alloy/nickel substrate (2 μm) Gold-plated contacts (0.15 μm)
Hold-down	Spring copper alloy/fused-tin plating (1.5 μ m)



+

XF2M

Pins*1 Model ABCDEFG XF2M-1015-1A 4.5 5.6 8.5 9.1 7.1 6.1 9.5 10 XF2M-1215-1A 6.6 9.5 10.1 8.1 7.1 10.5 12 5.5 14 XF2M-1415-1A 6.5 7.6 10.5 11.1 9.1 8.1 11.5 XF2M-1815-1A 8.5 9.6 12.5 13.1 11.1 10.1 13.5 18 XF2M-2015-1A 9.5 10.6 13.5 14.1 12.1 11.1 14.5 20 22 XF2M-2215-1A 10.5 11.6 14.5 15.1 13.1 12.1 15.5 XF2M-2415-1A 11.5 12.6 15.5 16.1 14.1 13.1 16.5 24 26 XF2M-2615-1A 12.5 13.6 16.5 17.1 15.1 14.1 17.5 30 XF2M-3015-1A 14.5 15.6 18.5 19.1 17.1 16.1 19.5 15.5 16.6 19.5 20.1 18.1 17.1 20.5 XF2M-3215-1A 32 33 XF2M-3315-1A 16.0 17.1 20.0 20.6 18.6 17.6 21.0 XF2M-3415-1A 16.5 17.6 20.5 21.1 19.1 18.1 21.5 34 17.0 18.1 21.0 21.6 19.6 18.6 22.0 XF2M-3515-1A 35 XF2M-3615-1A 17.5 18.6 21.5 22.1 20.1 19.1 22.5 36 38 XF2M-3815-1A 18.5 19.6 22.5 23.1 21.1 20.1 23.5 40 XF2M-4015-1A 19.5 20.6 23.5 24.1 22.1 21.1 24.5 XF2M-4215-1A 20.5 21.6 24.5 25.1 23.1 22.1 25.5 42 22.0 23.1 26.0 26.6 24.6 23.6 27.0 XF2M-4515-1A 45 50 XF2M-5015-1A 24.5 25.6 28.5 29.1 27.1 26.1 29.5 27.0 28.1 31.0 31.6 29.6 28.6 32.0 55 XF2M-5515-1AH 29.5 30.6 33.5 34.1 32.1 31.1 34.5 XF2M-6015-1AH 60





100pcs	per	ree
D:		

Toopes	perieer					
Pins ^{*1}	Model	Pins ^{*1}	Model	Pins ^{*1}	Model	Quantity per reel (unit) *2
10	XF2M-1015-1A-R100	26	XF2M-2615-1A-R100	38	XF2M-3815-1A-R100	
12	XF2M-1215-1A-R100	30	XF2M-3015-1A-R100	40	XF2M-4015-1A-R100	
14	XF2M-1415-1A-R100	32	XF2M-3215-1A-R100	42	XF2M-4215-1A-R100	
18	XF2M-1815-1A-R100	33	XF2M-3315-1A-R100	45	XF2M-4515-1A-R100	100
20	XF2M-2015-1A-R100	34	XF2M-3415-1A-R100	50	XF2M-5015-1A-R100	
22	XF2M-2215-1A-R100	35	XF2M-3515-1A-R100	55	XF2M-5515-1AH-R100	
24	XF2M-2415-1A-R100	36	XF2M-3615-1A-R100	60	XF2M-6015-1AH-R100	

F ± 0.1

G ± 0.1

1500pcs por rool

1200b	1500pcs per reel							
Pins ^{* 1}	Model	Pins ^{* 1}	Model	Pins ^{* 1}	Model	Quantity per reel (unit) * 2	* 1.	
10	XF2M-1015-1A	26	XF2M-2615-1A	38	XF2M-3815-1A		* 2.	
12	XF2M-1215-1A	30	XF2M-3015-1A	40	XF2M-4015-1A			
14	XF2M-1415-1A	32	XF2M-3215-1A	42	XF2M-4215-1A			
18	XF2M-1815-1A	33	XF2M-3315-1A	45	XF2M-4515-1A	1,500		
20	XF2M-2015-1A	34	XF2M-3415-1A	50	XF2M-5015-1A			
22	XF2M-2215-1A	35	XF2M-3515-1A	55	XF2M-5515-1AH			
24	XF2M-2415-1A	36	XF2M-3615-1A	60	XF2M-6015-1AH			

Please consult your OMRON representative for available pin count. Please order by integer multiple of the quantity per reel.

 $T = 0.3 \pm 0.05$

(Conductive plating)





Greater Freedom in Board Design with a Bottom Wall and the Smallest On-board Area in the Industry

- Smallest on-board area and volume in the industry.
- Low on-board height of only 1.2 mm.
- Highest board design surface efficiency in the industry with a bottom wall preventing terminal exposure.
- Construction with secure slider locking mechanism.
- Applicable FPC 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	$30 \text{ m}\Omega \text{ max.}$ (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)

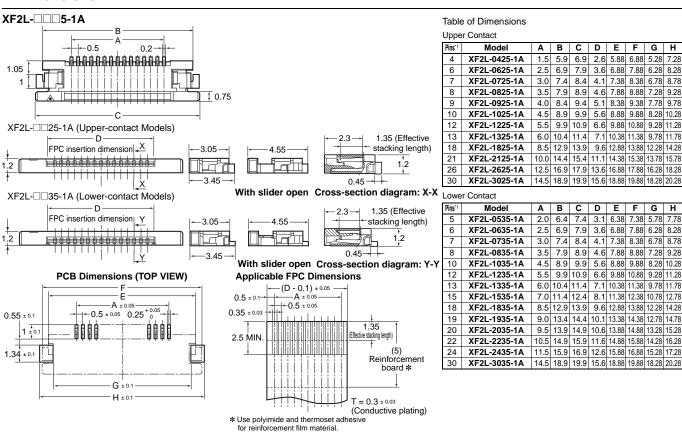
Dimensions



For FPC

Materials and Finish

Model Item	XF2L (Upper-contact Models)	XF2L (Lower-contact Models)				
Housing	LCP resin (UL94V-0)/natural					
Slider	LCP resin (UL94V-0)/black LCP resin (UL94V-0)/bro					
Contacts	Spring copper alloy/nickel substrate (2 μ m) Gold-plated contacts .(0.15 μ m)					
Hold-down	Spring copper alloy/fused	l-tin plating (1.5 μm)				



Ordering Information

Pins ^{*1}	List of Models	Model	Pins ^{*1}	List of Models	Model	Pins ^{*1}	List of Models	Model	Quantity per reel (unit) *2
4		XF2L-0425-1A	10		XF2L-1025-1A	19	Lower contact	XF2L-1935-1A	
5	Lower contact	XF2L-0535-1A	10	Lower contact	XF2L-1035-1A	20	Lower contact	XF2L-2035-1A	
6	Upper Contact	XF2L-0625-1A			XF2L-1225-1A	21	Upper Contact	XF2L-2125-1A	
0	Lower contact	XF2L-0635-1A	12	Lower contact	XF2L-1235-1A	22	22 Lower contact XF2L-2235-1	XF2L-2235-1A	
7	Upper Contact	XF2L-0725-1A	13	Upper Contact	XF2L-1325-1A	24	Lower contact	XF2L-2435-1A	3,000
	Lower contact	XF2L-0735-1A	15	Lower contact	XF2L-1335-1A	26		XF2L-2625-1A	
8		XF2L-0825-1A	15		XF2L-1535-1A	30		XF2L-3025-1A	
0	Lower contact	XF2L-0835-1A	18		XF2L-1825-1A	30	Lower contact	XF2L-3035-1A	1
9	Upper Contact	XF2L-0925-1A	10	Lower contact	XF2L-1835-1A	-	-	-	

Please consult your OMRON representative for available pin count. Please order by integer multiple of the quantity per reel.





Top-entry ZIF Connector.

- Low on-board height of only 4.15 mm.
- · Correspond for auto-mounting, secured the pick-and-place on top of the connector.
- Models with reverse terminal arrangement also available.
- Applicable FPC thickness of 0.3 mm.

RoHS compliant

Ratings and Specifications

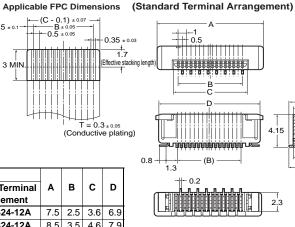
Rated current	0.5 A AC/DC
Rated voltage	50 V AC/DC
Contact resistance	$30 \text{ m}\Omega$ max. (at 20 mV DC max., 100 mA max.)
Insulation resistance	100 MΩ min. (at 250 V DC)
Dielectric strength	250 V AC for 1 min. (leakage current: 1 mA max.)
Insertion durability	30 times
Ambient operating temperature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

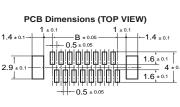
0.5 ± 0.

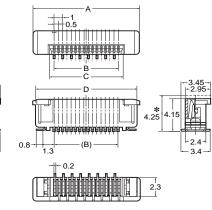
Dimensions

XF2J-024-10A

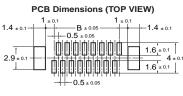








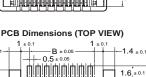
(Reverse Terminal Arrangement)

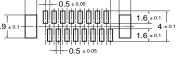


* Dotted lines indicate the shape and dimensions of the XF2J-4024-12A connectors.

Table of Dimensions

Pins	Мо					
*1	Standard Terminal	Α	в	С	D	
	Arrangement	Arrangement				
6	XF2J-0624-11A	XF2J-0624-12A	7.5	2.5	3.6	6.9
8	XF2J-0824-11A	XF2J-0824-12A	8.5	3.5	4.6	7.9
10	XF2J-1024-11A	XF2J-1024-12A	9.5	4.5	5.6	8.9
12	XF2J-1224-11A	XF2J-1224-12A	10.5	5.5	6.6	9.9
14	XF2J-1424-11A	-	11.5	6.5	7.6	10.9
16	XF2J-1624-11A	XF2J-1624-12A	12.5	7.5	8.6	11.9
18	XF2J-1824-11A	XF2J-1824-12A	13.5	8.5	9.6	12.9
20	XF2J-2024-11A	XF2J-2024-12A	14.5	9.5	10.6	13.9
22	XF2J-2224-11A	XF2J-2224-12A	15.5	10.5	11.6	14.9
24	XF2J-2424-11A	XF2J-2424-12A	16.5	11.5	12.6	15.9
26	XF2J-2624-11A	-	17.5	12.5	13.6	16.9
28	XF2J-2824-11A	-	18.5	13.5	14.6	17.9
30	XF2J-3024-11A	-	19.5	14.5	15.6	18.9
40	-	XF2J-4024-12A	25.1	19.5	20.6	24.3





Ordering Information

Pins	Мо	del	Pins	Mo	Quantity per			
* 1	Standard Terminal	al Reverse Terminal		I Reverse Terminal		Standard Terminal	Reverse Terminal	reel (unit) ^{* 2}
	Arrangement	Arrangement		Arrangement	Arrangement	reer (unit) -		
6	XF2J-0624-11A	XF2J-0624-12A	20	XF2J-2024-11A	XF2J-2024-12A			
8	XF2J-0824-11A	XF2J-0824-12A	22	XF2J-2224-11A	XF2J-2224-12A			
10	XF2J-1024-11A	XF2J-1024-12A	24	XF2J-2424-11A	XF2J-2424-12A			
12	XF2J-1224-11A	XF2J-1224-12A	26	XF2J-2624-11A	-	1,000		
14	XF2J-1424-11A	-	28	XF2J-2824-11A	-			
16	XF2J-1624-11A	XF2J-1624-12A	30	XF2J-3024-11A	-			
18	XF2J-1824-11A	XF2J-1824-12A	40	-	XF2J-4024-12A			

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

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



Materials and Finish

2.4-

Housing	PA46 resin (UL94V-0)/Natural
Slider	LCP resin (UL94V-0)/black
Contacts	Spring copper alloy/nickel substrate (2 μm), Gold-plated contacts (0.15 μm)
Hold-down	Spring copper alloy/fused-tin plating (1.5 µm)

Safety Precautions

Precautions for Correct Use

- For All Models
- For Operating
- Make sure that the FPC has been inserted correctly. If the FPC is inserted incorrectly from the customer's design specification, the pin number will not match and it may damage the contacts or cause malfunction of the equipment.
- Insert the FPC fully to the back of the connector. Not doing so may cause a loss of contact reliability.
- · Do not lock or unlock the slider with excessive force. The connector may be damaged, and cause contact failure.
- Do not use the connector of which the slider has once come off.
- · When inserting and drawing out the FPC, make sure that the slider has been unlocked first.

Using the FPC in the following ways may damage the FPC, change the shape of the contacts, or result in contact failure.

- (1) Drawing out the FPC when the slider is still locked.
- (2) Drawing out the FPC by pulling it up and down or from left to right or twisting it sideways.
- For Designing
- When mounting the connector to the FPC, design the FPC so that extreme peel force should not be applied directly on to the connector.

If the FPC bends near the connector, or if the FPC is used with extreme peel force directly on to the connector, it may cause a contact loss.

- If the connector-mounted FPC is installed at a location or in any equipment that will subject the FPC to continuous shake or movement, secure the FPC or take any countermeasure against FPC disconnection from the connector.
- · Use FPCs that conform to the appropriate specifications and size as stated by OMRON.

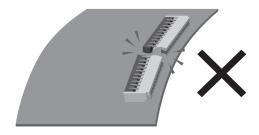
When using a different FPC, or an FFC, contact OMRON.

- Use the same metal for the FPC plating and the connector plating.
- "Whiskers" may protrude from the FPC film of some lead-free FPCs. Be careful when using these units.
- Ensure a metal mask thickness of t = 0.12 to 0.15 mm. The recommended metal mask open area is 90% of the printed circuit board mating dimensions given in the dimensions diagrams.
- For Mounting
- · Do not mount (reflow or manual soldering) the connector to PCB with FPC inserted in the connector. Doing so may result in contact failure.
- · The reflow conditions are as stated in OMRON's specifications and guidelines.

These conditions, however, depend on the type of solder, the manufacturer, the amount of solder, the size of the circuit board, and the other mounting materials.

- · When mounting the connector by manual soldering, observe the following precautions to ensure contact reliability.
 - (1) Conditions for manual soldering: 350±10°C 3±1 sec
 - (2) Do not apply an excessive amount of solder. Excessive solder will cause the flux to rise.
 - (3) Do not apply the soldering iron to the mount attachments using force. Doing so may cause the connectors to change shape.

- (4) Do not apply the soldering iron to any parts of the connector other than the mount attachments. Doing so may cause the connector to change shape.
- For Board Mounting
- Be careful of board warping. The connector flatness is 0.1 mm max. A large amount of warping, however, may result in soldering faults.
- · Do not apply excessive force on the connector before mounting it. The connector may be damaged, resulting in faulty contacts. Do not insert the FPC and lock the slider before mounting the connector.
- · Be careful not to apply an excessive load on the board when performing the following actions. The connector may be damaged, resulting in faulty contacts.
 - (1) Dividing multi-cavity boards.
 - (2) Securing a board with screws.



Storage

- (1) Do not store the connectors in locations subject to dust or high humidity.
- (2) Do not store the connectors in locations close to sources of gasses such ammonia gas or sulfide gas.

For Slidelocking Models

For Operating

For Designing

OMRON

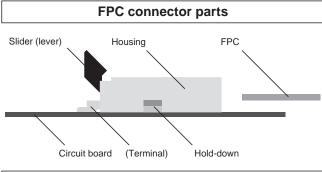
space for the slider.

• When locking the slider, apply pressure to both sides or the entire slider, then push the slider all the way in. Not doing so may result in contact failure. · When designing the board, be sure to allow unlocking and operating

Common Precautions for XF Connectors

• XF2M & XF2W series are available to use FPC/FFC cable. Please check any condition of each cable in spec sheet, or contact with our Sales side.

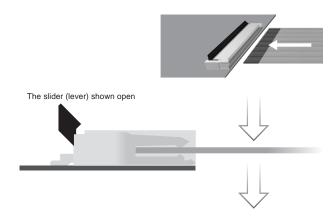
Operating the XF Rotary Backlock



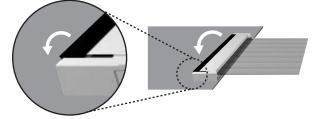
Handling Methods

• For Inserting the FPC

(1) Insert the FPC fully to the back of the connector.



(2) Activate the slider (lever) and lock the FPC in place.

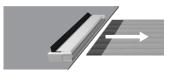


The slider (lever) shown locked

mechanism.

(1) Move the slider (lever) upwards to disengage the locking

(2) Once the lock has been disengaged, pull the FPC out.



Precautions during Use

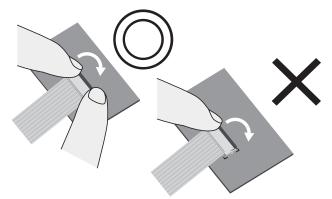
For Operating

(1) Do not lock the slider (lever) without an FPC inserted. Locking the slider (lever) without an FPC inserted will increase the force required to insert an FPC.



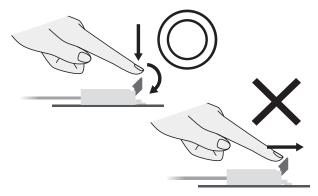


- (2) Do not lock or unlock the slider (lever) with excessive force. The connector may be damaged, resulting in faulty contacts. Do not use the slider (lever) again if it becomes detached.
- (3) When locking the slider (lever), apply pressure with your fingertips to both sides of the slider (lever) and then twist the slider (lever) until it comes away from the unit. Failing to lock the slider (lever) properly may result in contact failure.



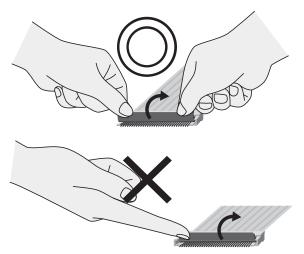
Do not apply force horizontally to the PCB when locking the slider (lever).

The connector may be damaged, resulting in faulty contacts.



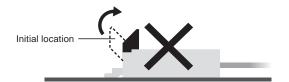
Operating the XF Rotary Backlock

(4) When unlocking the slider (lever), place your fingers on either side or the entire slider (lever) and slowly lift the slider (lever) up and away.



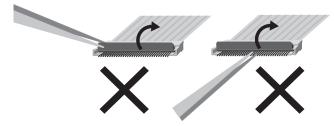
Do not engage the slider past its initial location during the unlocking process.

The connector may be damaged, resulting in faulty contacts.

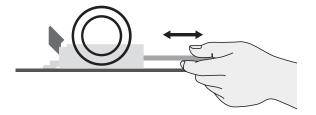


Performing the following action may cause the terminals to change shape or otherwise cause contact failures.

• Using tweezers to unlock the slider (lever).

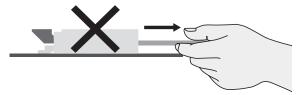


(5) When inserting and drawing out the FPC, be sure to check that the slider (lever) has been unlocked first.

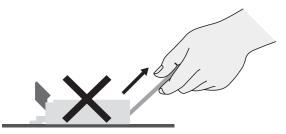


Using the FPC in the following ways may damage the FPC, change the shape of the contacts, or result in contact failure.

• Drawing out the FPC when the slider (lever) is still locked.



• Drawing out the FPC by pulling it up and down or from left to right or twisting it sideways.



(6) Make sure that the FPC has been inserted correctly.

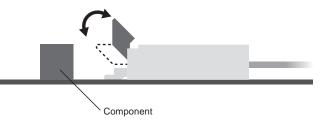
If the FPC is inserted incorrectly from the customer's design specification, the pin number will not match and it may damage the contacts or cause malfunction of the equipment.

For Mounting

- (1) Do not perform reflow or manual soldering with the FPC inserted in the connector and the slider (lever) in the locked position. Doing so may result in contact failure.
- (2) The reflow conditions are as stated in OMRON's specifications and guidelines. These conditions, however, depend on the type of solder, the manufacturer, the amount of solder, the size of the circuit board, and the other mounting materials.

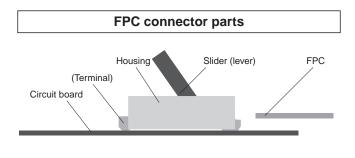
For Designing

- (1) Design the FPC so that extreme peel force should not be applied directly on to the connector. If the FPC bends near the connector, or if the FPC is used with extreme peel force directly on to the connector, it may cause a contact loss.
- (2) If the FPC is installed at a location or in any equipment that will subject the FPC to continuous shake or movement, secure the FPC.
- (3) Use FPCs that conform to the appropriate specifications and size as stated by OMRON. When using a different FPC, or an FFC, contact OMRON.
- (4) Use the same metal for the FPC plating and the connector plating.
- (5) "Whiskers" may protrude from the FPC film of some lead-free FPCs. Be careful when using these units.
- (6) When designing the board, be sure to allow locking and operating space for the slider (lever).



- (7) Make sure that the metal mask thickness is within the appropriate specifications and size as stated by OMRON. The recommended metal mask open area is 90% of the printed circuit board mating dimensions given in the dimensions diagrams.
 - XF2M & XF2W series are available to use FPC/FFC cable. Please check any condition of each cable in spec sheet, or contact with our Sales side.

Operating the XF Rotary Frontlock



Handling Methods

- For Inserting the FPC
- (1) When unlocking the slider, use your fingernail to rotate and lift the slider.



(2) Securely insert the FPC so that it is perpendicular to the connector and horizontal to the connector.

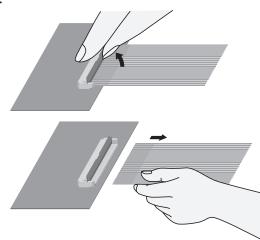


(3) When locking the slider, apply pressure with your fingertips to the center of the slider, then twist the slider until it comes away from the unit.



• For Drawing Out the FPC

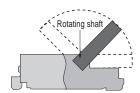
(1) Unlock the slider by pushing it up, then remove the FPC.



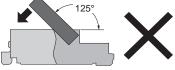
Precautions during Use

• For Operating

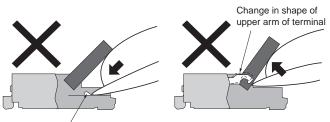
(1) The slider mechanism rotates around a rotary shaft. Operate the slider in a rotating movement.



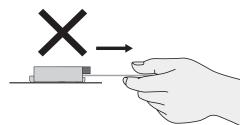
(2) The slider cannot be opened to an angle of more than 125 degrees. Do not apply force on the slider beyond that point. The connector may be damaged, resulting in faulty contacts. Do not use the connector of which the slider has once come off.



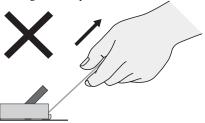
- (3) Lock and unlock the slider using the center of the slider. Using the end of the slider may result in incomplete locking, damage, or contact failure.
- (4) As shown in the following figure, do not touch the terminals with your fingernail or fingers if using the slider without the FPC inserted. Doing so may cause the terminals to change shape and result in contact failure.



- Change in shape of tip of terminal
- (5) Using the FPC in the follow ways may damage the FPC, change the shape of the contacts, or result in contact failure.
 - Drawing out the FPC when the slider (lever) is still locked.



• Drawing out the FPC by pulling it up and down or from left to right or twisting it sideways.



(6) Make sure that the FPC has been inserted correctly. If the FPC is inserted incorrectly from the customer's design specification, the pin number will not match and it may damage the contacts or cause malfunction of the equipment.

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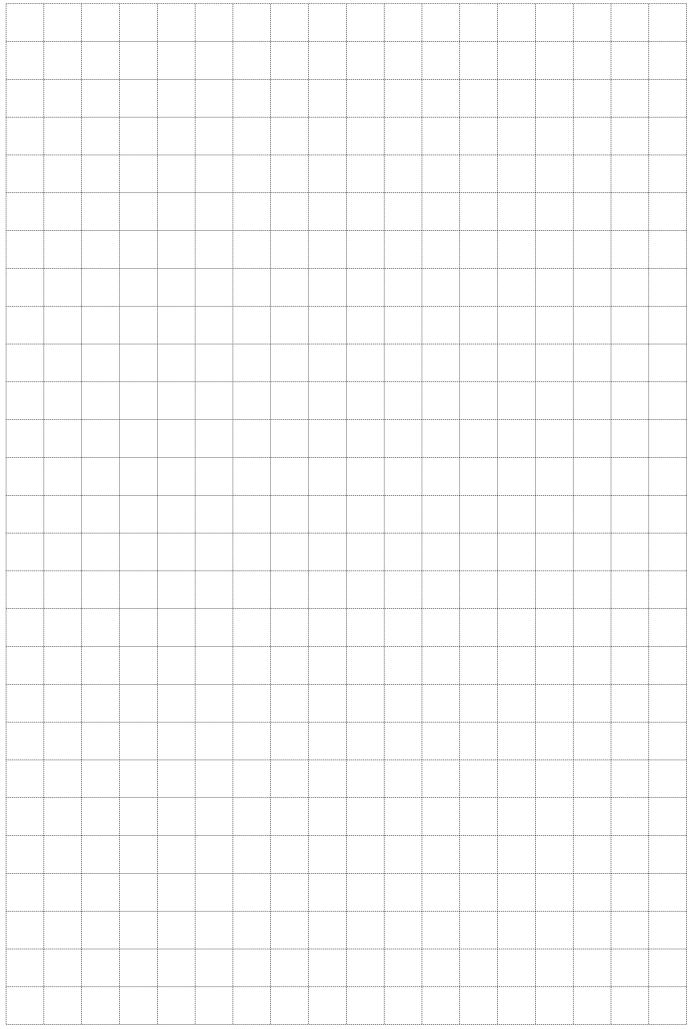
For Mounting

- (1) Do not perform reflow or manual soldering with the FPC inserted in the connector. Doing so may result in contact failure.
- (2) The reflow conditions are as stated in OMRON's specifications and guidelines. These conditions, however, depend on the type of solder, the manufacturer, the amount of solder, the size of the circuit board, and the other mounting materials.

For Designing

- (1) Design the FPC so that extreme peel force should not be applied directly on to the connector. If the FPC bends near the connector, or if the FPC is used with extreme peel force directly on to the connector, it may cause a contact loss.
- (2) If the FPC is installed at a location or in any equipment that will subject the FPC to continuous shake or movement, secure the FPC.
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- (6) Make sure that the metal mask thickness is within the appropriate specifications and size as stated by OMRON. The recommended metal mask open area is 90% of the printed circuit board mating dimensions given in the dimensions diagrams.

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Note: Do not use this document to operate the Unit.

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