

# Rotary Backlock Connector (0.5-mm or 1.0-mm pitch, Dual Contact)

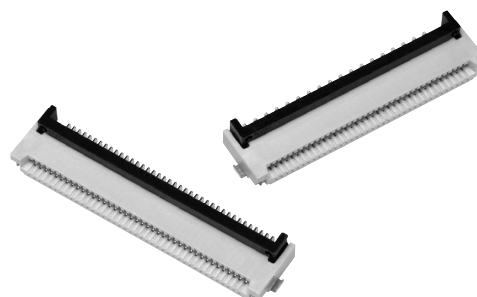
## XF3M

**Rotary Backlock Connectors Provide Improved Insertion of FPC/FFC Cables and Confirm Proper Connection with a Sure Lock Feel.**

- Models available with 0.5 mm or 1.0 mm pitch.
- Dual contact design reduces the number of parts in the Bill of Materials.
- Applicable FPC/FFC thickness of 0.3 mm.
- Halogen Free (See note)

**Note:** 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.



**NEW**

## Ordering Information

### 0.5 mm Pitch

| Pins | Model        | Quantity per reel<br>(See Note 2) |
|------|--------------|-----------------------------------|
| (4)  | XF3M-0415-1B | 1,500                             |
| (6)  | XF3M-0615-1B |                                   |
| (8)  | XF3M-0815-1B |                                   |
| 10   | XF3M-1015-1B |                                   |
| 12   | XF3M-1215-1B |                                   |
| (14) | XF3M-1415-1B |                                   |
| 16   | XF3M-1615-1B |                                   |
| (18) | XF3M-1815-1B |                                   |
| 20   | XF3M-2015-1B |                                   |
| (22) | XF3M-2215-1B |                                   |
| 24   | XF3M-2415-1B |                                   |
| 25   | XF3M-2515-1B |                                   |
| (26) | XF3M-2615-1B |                                   |
| 30   | XF3M-3015-1B |                                   |

| Pins | Model        | Quantity per reel<br>(See Note 2) |
|------|--------------|-----------------------------------|
| 31   | XF3M-3115-1B | 1,500                             |
| (32) | XF3M-3215-1B |                                   |
| (33) | XF3M-3315-1B |                                   |
| (34) | XF3M-3415-1B |                                   |
| (35) | XF3M-3515-1B |                                   |
| (36) | XF3M-3615-1B |                                   |
| (38) | XF3M-3815-1B |                                   |
| 40   | XF3M-4015-1B |                                   |
| (41) | XF3M-4115-1B |                                   |
| (42) | XF3M-4215-1B |                                   |
| (45) | XF3M-4515-1B |                                   |
| 50   | XF3M-5015-1B |                                   |
| (55) | XF3M-5515-1B |                                   |
| 60   | XF3M-6015-1B |                                   |

### 1.0 mm Pitch

| Pins | Model           | Quantity per reel<br>(See Note 2) |
|------|-----------------|-----------------------------------|
| 4    | XF3M(1)-0415-1B | 1,500                             |
| 5    | XF3M(1)-0515-1B |                                   |
| (6)  | XF3M(1)-0615-1B |                                   |
| (7)  | XF3M(1)-0715-1B |                                   |
| (8)  | XF3M(1)-0815-1B |                                   |
| (9)  | XF3M(1)-0915-1B |                                   |
| (10) | XF3M(1)-1015-1B |                                   |

| Pins | Model           | Quantity per reel<br>(See Note 2) |
|------|-----------------|-----------------------------------|
| 12   | XF3M(1)-1215-1B | 1,500                             |
| 15   | XF3M(1)-1515-1B |                                   |
| (16) | XF3M(1)-1615-1B |                                   |
| (17) | XF3M(1)-1715-1B |                                   |
| 18   | XF3M(1)-1815-1B |                                   |
| (22) | XF3M(1)-2215-1B |                                   |
| 30   | XF3M(1)-3015-1B |                                   |

**Note:** 1. Please consult your Omron representative for available pin count and marketing dates for pin counts in parenthesis.

2. Please order by integer multiple of the quantity per reel. Add “-R100” at the end of the part to obtain reels of 100 pieces.

# Ratings and Specifications

## ■ Characteristics

|                               |                                                 |
|-------------------------------|-------------------------------------------------|
| Rated current                 | 0.5A AC/DC                                      |
| Rated voltage                 | 50V AC/DC                                       |
| Contact resistance            | 50 mΩ max. (at 20 mVDC max., 100 mA max.)       |
| Insulation resistance         | 100 MΩ min. (at 250 VDC)                        |
| Withstand voltage             | 250 VAC for 1 min. (leakage current: 1 mA 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 (1.5 μm), Gold-plated contacts (flash) |
| Hold-down | Copper alloy/fused-tin plating (1 μm)                                       |

# Dimensions

Unit: mm

XF3M-□□15-1B (0.5 mm pitch)

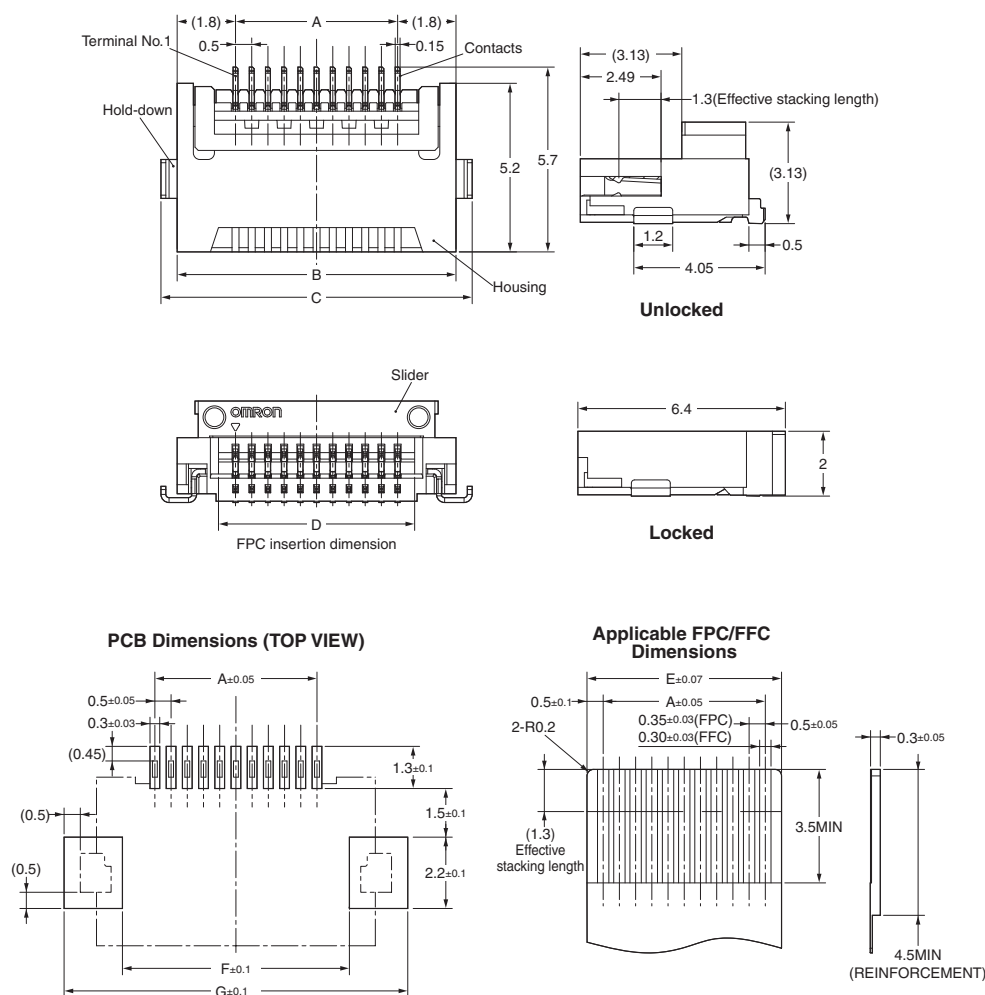
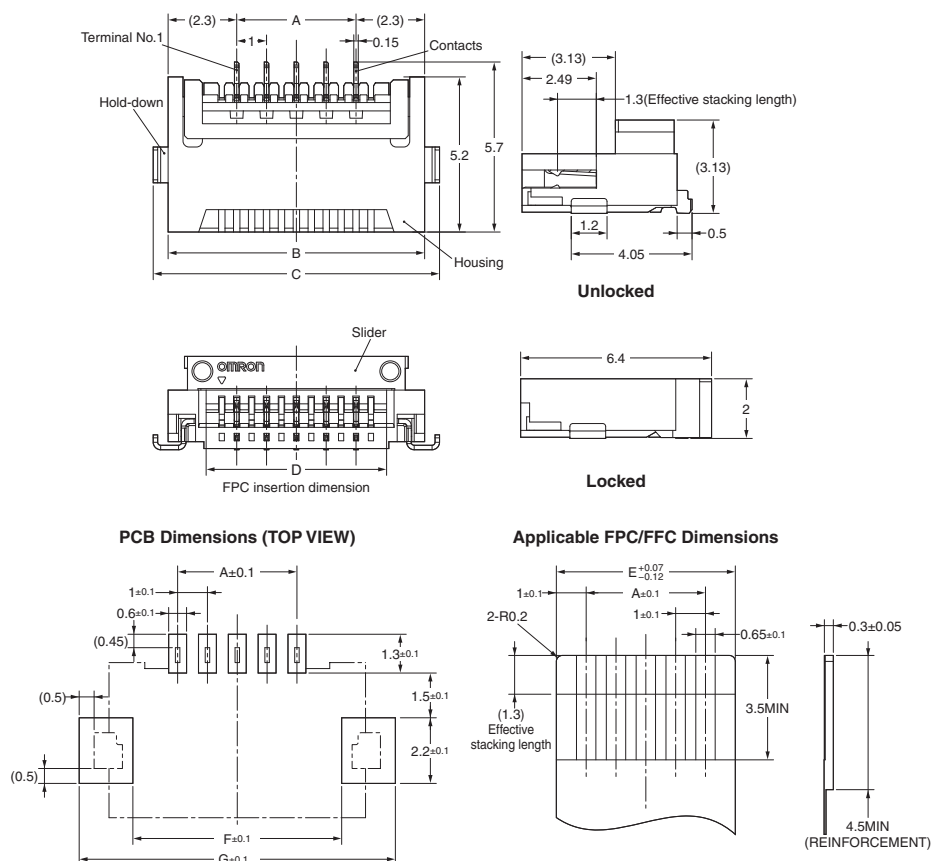


Table of Dimensions (0.5 mm pitch)

| Pins | Model        | A    | B    | C    | D     | E    | F    | G    |
|------|--------------|------|------|------|-------|------|------|------|
| (4)  | XF3M-0415-1B | 1.5  | 5.1  | 6.1  | 2.55  | 2.5  | 3.5  | 7.1  |
| (6)  | XF3M-0615-1B | 2.5  | 6.1  | 7.1  | 3.55  | 3.5  | 4.5  | 8.1  |
| (8)  | XF3M-0815-1B | 3.5  | 7.1  | 8.1  | 4.55  | 4.5  | 5.5  | 9.1  |
| 10   | XF3M-1015-1B | 4.5  | 8.1  | 9.1  | 5.55  | 5.5  | 6.5  | 10.1 |
| 12   | XF3M-1215-1B | 5.5  | 9.1  | 10.1 | 6.55  | 6.5  | 7.5  | 11.1 |
| (14) | XF3M-1415-1B | 6.5  | 10.1 | 11.1 | 7.55  | 7.5  | 8.5  | 12.1 |
| 16   | XF3M-1615-1B | 7.5  | 11.1 | 12.1 | 8.55  | 8.5  | 9.5  | 13.1 |
| (18) | XF3M-1815-1B | 8.5  | 12.1 | 13.1 | 9.55  | 9.5  | 10.5 | 14.1 |
| 20   | XF3M-2015-1B | 9.5  | 13.1 | 14.1 | 10.55 | 10.5 | 11.5 | 15.1 |
| (22) | XF3M-2215-1B | 10.5 | 14.1 | 15.1 | 11.55 | 11.5 | 12.5 | 16.1 |
| 24   | XF3M-2415-1B | 11.5 | 15.1 | 16.1 | 12.55 | 12.5 | 13.5 | 17.1 |
| 25   | XF3M-2515-1B | 12.0 | 15.6 | 16.6 | 13.05 | 13.0 | 14.0 | 17.6 |
| (26) | XF3M-2615-1B | 12.5 | 16.1 | 17.1 | 13.55 | 13.5 | 14.5 | 18.1 |
| 30   | XF3M-3015-1B | 14.5 | 18.1 | 19.1 | 15.55 | 15.5 | 16.5 | 20.1 |
| 31   | XF3M-3115-1B | 15.0 | 18.6 | 19.6 | 16.05 | 16.0 | 17.0 | 20.6 |
| (32) | XF3M-3215-1B | 15.5 | 19.1 | 20.1 | 16.55 | 16.5 | 17.5 | 21.1 |
| (33) | XF3M-3315-1B | 16.0 | 19.6 | 20.6 | 17.05 | 17.0 | 18.0 | 21.6 |
| (34) | XF3M-3415-1B | 16.5 | 20.1 | 21.1 | 17.55 | 17.5 | 18.5 | 22.1 |
| (35) | XF3M-3515-1B | 17.0 | 20.6 | 21.6 | 18.05 | 18.0 | 19.0 | 22.6 |
| (36) | XF3M-3615-1B | 17.5 | 21.1 | 22.1 | 18.55 | 18.5 | 19.5 | 23.1 |
| (38) | XF3M-3815-1B | 18.5 | 22.1 | 23.1 | 19.55 | 19.5 | 20.5 | 24.1 |
| 40   | XF3M-4015-1B | 19.5 | 23.1 | 24.1 | 20.55 | 20.5 | 21.5 | 25.1 |
| (41) | XF3M-4115-1B | 20.0 | 23.6 | 24.6 | 21.05 | 21.0 | 22.0 | 25.6 |
| (42) | XF3M-4215-1B | 20.5 | 24.1 | 25.1 | 21.55 | 21.5 | 22.5 | 26.1 |
| (45) | XF3M-4515-1B | 22.0 | 25.6 | 26.6 | 23.05 | 23.0 | 24.0 | 27.6 |
| 50   | XF3M-5015-1B | 24.5 | 28.1 | 29.1 | 25.55 | 25.5 | 26.5 | 30.1 |
| (55) | XF3M-5515-1B | 27.0 | 30.6 | 31.6 | 28.05 | 28.0 | 29.0 | 32.6 |
| 60   | XF3M-6015-1B | 29.5 | 33.1 | 34.1 | 30.55 | 30.5 | 31.5 | 35.1 |

XF3M(1)-□□15-1B (1.0 mm pitch)



**Table of Dimensions (1.0 mm pitch)**

| Pins | Model           | A    | B    | C    | D     | E    | F    | G    |
|------|-----------------|------|------|------|-------|------|------|------|
| 4    | XF3M(1)-0415-1B | 3.0  | 7.6  | 8.6  | 5.05  | 5.0  | 6.0  | 9.6  |
| 5    | XF3M(1)-0515-1B | 4.0  | 8.6  | 9.6  | 6.05  | 6.0  | 7.0  | 10.6 |
| (6)  | XF3M(1)-0615-1B | 5.0  | 9.6  | 10.6 | 7.05  | 7.0  | 8.0  | 11.6 |
| (7)  | XF3M(1)-0715-1B | 6.0  | 10.6 | 11.6 | 8.05  | 8.0  | 9.0  | 12.6 |
| (8)  | XF3M(1)-0815-1B | 7.0  | 11.6 | 12.6 | 9.05  | 9.0  | 10.0 | 13.6 |
| (9)  | XF3M(1)-0915-1B | 8.0  | 12.6 | 13.6 | 10.05 | 10.0 | 11.0 | 14.6 |
| (10) | XF3M(1)-1015-1B | 9.0  | 13.6 | 14.6 | 11.05 | 11.0 | 12.0 | 15.6 |
| 12   | XF3M(1)-1215-1B | 11.0 | 15.6 | 16.6 | 13.05 | 13.0 | 14.0 | 17.6 |
| 15   | XF3M(1)-1515-1B | 14.0 | 18.6 | 19.6 | 16.05 | 16.0 | 17.0 | 20.6 |
| (16) | XF3M(1)-1615-1B | 15.0 | 19.6 | 20.6 | 17.05 | 17.0 | 18.0 | 21.6 |
| (17) | XF3M(1)-1715-1B | 16.0 | 20.6 | 21.6 | 18.05 | 18.0 | 19.0 | 22.6 |
| 18   | XF3M(1)-1815-1B | 17.0 | 21.6 | 22.6 | 19.05 | 19.0 | 20.0 | 23.6 |
| (22) | XF3M(1)-2215-1B | 21.0 | 25.6 | 26.6 | 23.05 | 23.0 | 24.0 | 27.6 |
| 30   | XF3M(1)-3015-1B | 29.0 | 33.6 | 34.6 | 31.05 | 31.0 | 32.0 | 35.6 |



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**ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.**

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

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