

XF2W

For FPC/FFC

Rotary Backlock Connector (0.5-mm Pitch, Dual-sided 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-sided 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-plated (2 μm) |

■ Dimensions

(Unit: mm)

XF2W-□□15-1A

XF2W-□□15-1AE

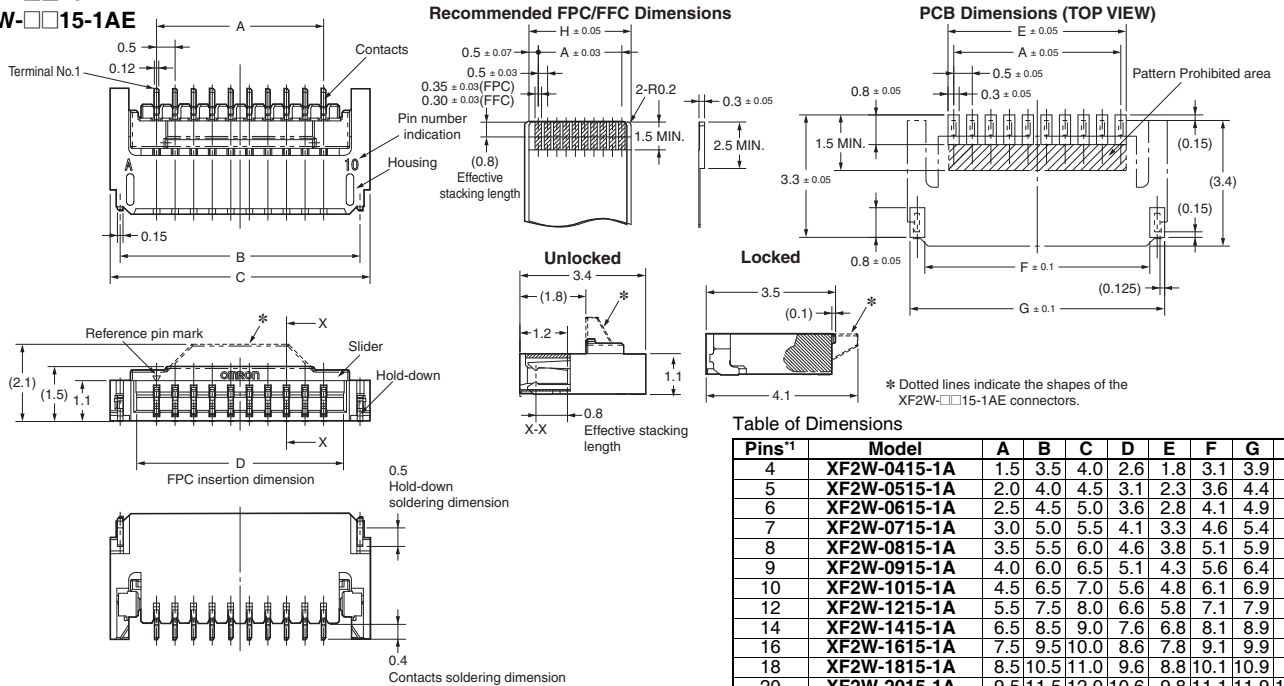


Table of Dimensions

| 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 |
| 12 | XF2W-1215-1A | 5.5 | 7.5 | 8.0 | 6.6 | 5.8 | 7.1 | 7.9 | 6.5 |
| 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 | 18 | XF2W-1815-1A | 45 | XF2W-4515-1AE | 2,000 |
| 5 | XF2W-0515-1A | 10 | XF2W-1015-1A | 20 | XF2W-2015-1A | 50 | XF2W-5015-1AE | |
| 6 | XF2W-0615-1A | 12 | XF2W-1215-1A | 24 | XF2W-2415-1A | 55 | XF2W-5515-1AE | |
| 7 | XF2W-0715-1A | 14 | XF2W-1415-1A | 26 | XF2W-2615-1A | 60 | XF2W-6015-1AE | |
| 8 | XF2W-0815-1A | 16 | XF2W-1615-1A | 40 | XF2W-4015-1A | 64 | XF2W-6415-1AE | |

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.

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