

## 0.50mm Pitch FFC/FPC – F331 Series

### RIGHT ANGLE ZIF BACK FLIP MECHANISM

F331 is a ZIF Flex connector (Right angle) with back side flip mechanism, small profile of 0.5mm pitch and 1.0mm height and its Pin count is available from 4 to 45 contacts.

- Easy to operate
- Strong FPC retention makes it vibration-proof
- Ensures high Solderability
- Ensures high durability
- Double side contact



#### TARGET MARKETS



#### FEATURES

- ZIF (Zero Insertion Force) mechanism requiring very little force for insertion
- Back flip locking mechanism
- Design against solder and flux wicking
- 20 mating cycles
- Double side contact
- 4 to 45 positions available
- Lead and halogen-free

#### BENEFITS

- No frictional mating wear resulting in high mating cycle life
- Easy to operate and strong FPC retention makes it vibration-proof
- Ensures high Solderability
- Ensures high durability
- Easy to operate
- Comprehensive range to satisfy all needs
- Meets environmental, health and safety requirements

## TECHNICAL INFORMATION

### MATERIAL

- Housing: LCP, natural color (UL94V-0)
- Actuator: PA9T, Black color (UL94V-0)
- Contact Terminal: Phosphor bronze
- Anchor-plate: Phosphor bronze

### MECHANICAL PERFORMANCE

- FFC/FPC Retention Force: 0.15N/pin min.
- Terminal Retention Force: 0.3N/pin min.
- Anchor-plate Retention Force: 0.8N/pin min.
- Durability: 20 mating cycles

### ELECTRICAL PERFORMANCE

- Voltage Rating: AC/DC 50V
- Current Rating: 0.5A
- Contact Resistance: 100mΩ max.
- Insulation Resistance: 500MΩ min.
- Dielectric Withstanding Voltage: No short or breakdown after AC 250V, 2mA, 1min.

### PACKAGING

- Tape & Reel

### APPROVALS AND CERTIFICATIONS

- UL 94V-0
- RoHS compliant

### SPECIFICATION

- Aorora Product Specification: IS.EQC.164

### ENVIRONMENTAL

- Operating Temperature Range: -55°C to +85°C

### TARGET MARKETS/APPLICATIONS



Car Multimedia  
Car Navigation  
Dashboard  
PND



Base Station  
Power  
Switches



Notebook  
Tablets  
Wearables  
Gaming  
DSC  
LCD & PDP TV  
Brewer  
Cooker  
Refrigerator



Sensing Element  
Monitoring Camera  
Human Machine

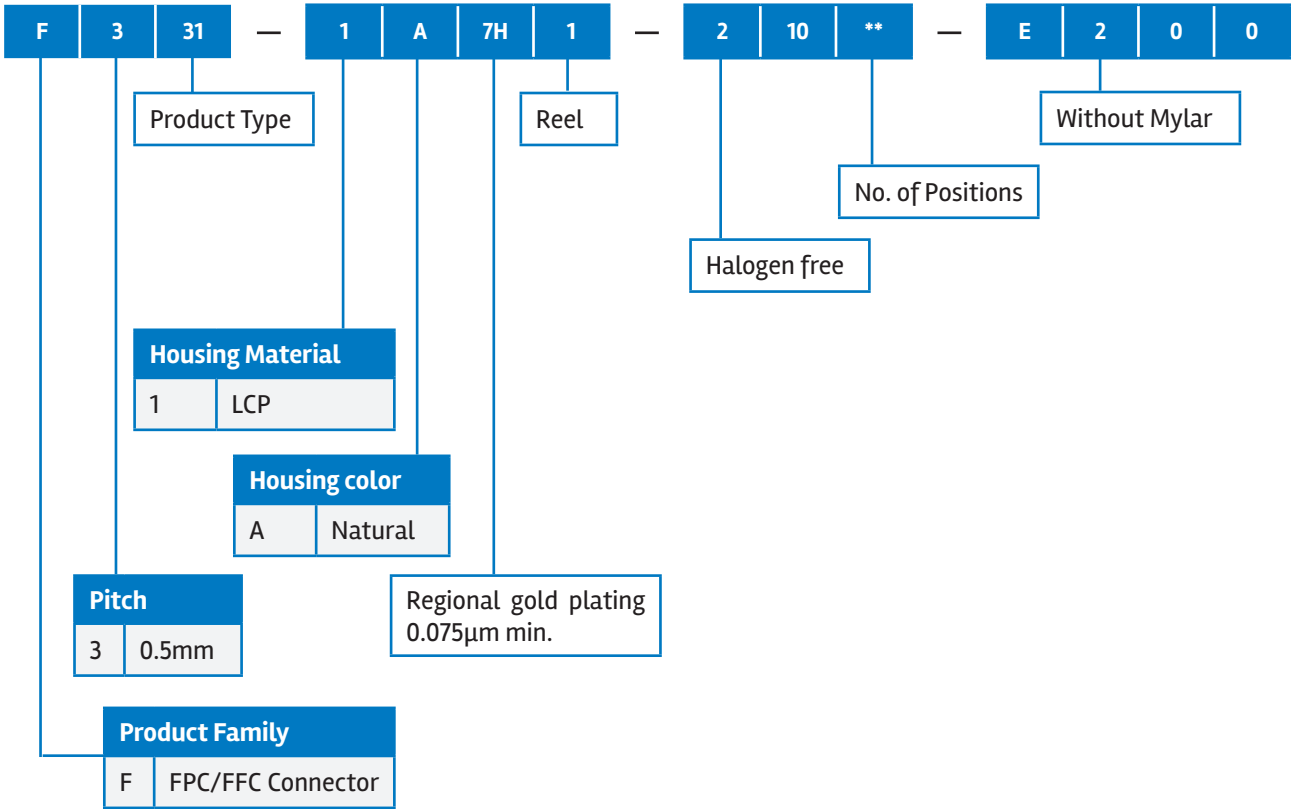


Ultrasonic  
Patient Monitor  
MRI  
CT  
Infusion Pump

PART NUMBERS

Description	Part Numbers
Flex Connector, P=0.50mm, H=1.00mm, Right angle orientation, Flip type, ZIF, Double contact, point 4P	F331-1A7H1-21004-E200
Flex Connector, P=0.50mm, H=1.00mm, Right angle orientation, Flip type, ZIF, Double contact, point 6P	F331-1A7H1-21006-E200
Flex Connector, P=0.50mm, H=1.00mm, Right angle orientation, Flip type, ZIF, Double contact, point 8P	F331-1A7H1-21008-E200
Flex Connector, P=0.50mm, H=1.00mm, Right angle orientation, Flip type, ZIF, Double contact, point 10P	F331-1A7H1-21010-E200
Flex Connector, P=0.50mm, H=1.00mm, Right angle orientation, Flip type, ZIF, Double contact, point 12P	F331-1A7H1-21012-E200
Flex Connector, P=0.50mm, H=1.00mm, Right angle orientation, Flip type, ZIF, Double contact, point 14P	F331-1A7H1-21014-E200
Flex Connector, P=0.50mm, H=1.00mm, Right angle orientation, Flip type, ZIF, Double contact, point 16P	F331-1A7H1-21016-E200
Flex Connector, P=0.50mm, H=1.00mm, Right angle orientation, Flip type, ZIF, Double contact, point 20P	F331-1A7H1-21020-E200
Flex Connector, P=0.50mm, H=1.00mm, Right angle orientation, Flip type, ZIF, Double contact, point 24P	F331-1A7H1-21024-E200
Flex Connector, P=0.50mm, H=1.00mm, Right angle orientation, Flip type, ZIF, Double contact, point 26P	F331-1A7H1-21026-E200
Flex Connector, P=0.50mm, H=1.00mm, Right angle orientation, Flip type, ZIF, Double contact, point 30P	F331-1A7H1-21030-E200
Flex Connector, P=0.50mm, H=1.00mm, Right angle orientation, Flip type, ZIF, Double contact, point 40P	F331-1A7H1-21040-E200

PART NUMBER SELECTOR



AOR0RAF331012/EA4

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## Amphenol:

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[F3311A7H121014E200](#) [F3311A7H121016E200](#) [F3311A7H121020E200](#) [F3311A7H121024E200](#)  
[F3311A7H121026E200](#) [F3311A7H121030E200](#) [F3311A7H121040E200](#) [F3311A7H121004E200](#)