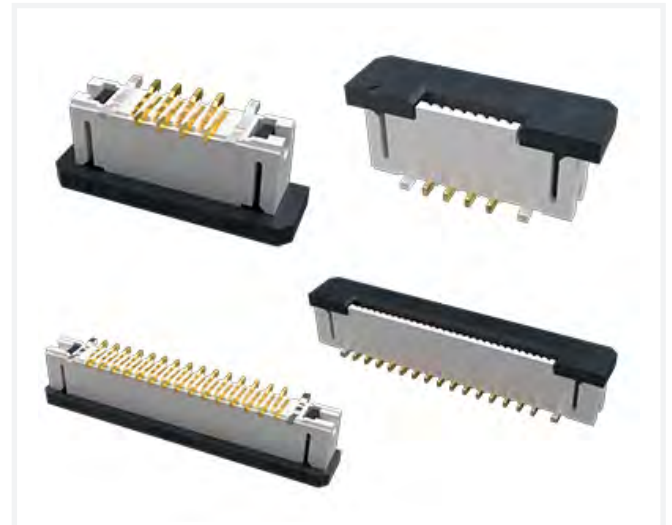


0.50mm Pitch FFC/FPC – F31W/F31Z/F314/F336 Series

VERTICAL ZIF FLEX CONNECTOR

F31W/F31Z/F314/F336 series are 0.50mm pitch vertical ZIF flex connectors with slider mechanism and surface mount termination. These connectors feature a height of 4.25mm and are offered in 4 to 60 contacts. These series feature a cable thickness of 0.30mm and provide enhanced durability of 30 mating cycles. The connectors come with a robust design and prevent solder and flux wicking. These are ideal for automotive, data, industrial, communication, consumer and medical applications.

- Easy to operate and strong FPC/FFC retention makes it vibration-proof
- Ensures high solderability and high durability



TARGET MARKETS



FEATURES

- ZIF (Zero Insertion Force) mechanism
- Slider mechanism
- Design against solder and flux wicking
- High-temperature thermoplastic housing
- 4 to 60 positions available
- Lead and halogen-free

BENEFITS

- Absence of frictional mating wear results in high mating cycle life
- Easy to operate and strong FPC/FFC retention makes it vibration-proof
- Ensures high solderability
- Wide operating temperature range of -40°C to $+105^{\circ}\text{C}$
- Comprehensive range to satisfy different customer requirements
- Meets environmental, health and safety requirements

TECHNICAL INFORMATION

MATERIAL

- Housing: LCP, natural color (UL94V-0)
- Slider: PA9T, black color (UL94V-0)
- Contact Terminal: Phosphor bronze, T=0.20mm
- Anchor-plate: Brass, T=0.40mm
- Mylar: T=0.10mm, thermostable, yellow color

MECHANICAL PERFORMANCE

- FFC/FPC Retention Force: 0.1~2.25kgf/min. (initial), after 30 cycles: 0.06~2.08kgf/min.
- Terminal Retention Force: 100gf/terminal min.
- Anchor-plate Retention Force: 400gf/plate min.
- Durability: 30 mating cycles

ELECTRICAL PERFORMANCE

- Voltage Rating: 50V AC/DC
- Current Rating: 0.5A
- Contact Resistance: 30MΩ max.
- Insulation Resistance: 500MΩ min.
- Dielectric Withstanding Voltage: No short or breakdown after 500V AC, 2mA, 1min.

PACKAGING

- Tape & Reel

APPROVALS AND CERTIFICATIONS

- UL file number E106764
- RoHS compliant

SPECIFICATION

- Aorora Product Specification: IS.EQC.012

ENVIRONMENTAL

- Operating Temperature Range: -40°C to +105°C

TARGET MARKETS/APPLICATIONS



Car Multimedia
Car Navigation
Dashboard
PND



Base Station
Power
Switches



Notebook
Tablets
Wearables
Gaming
DSC
LCD & PDP TV



Router
Server
ODD
HDD

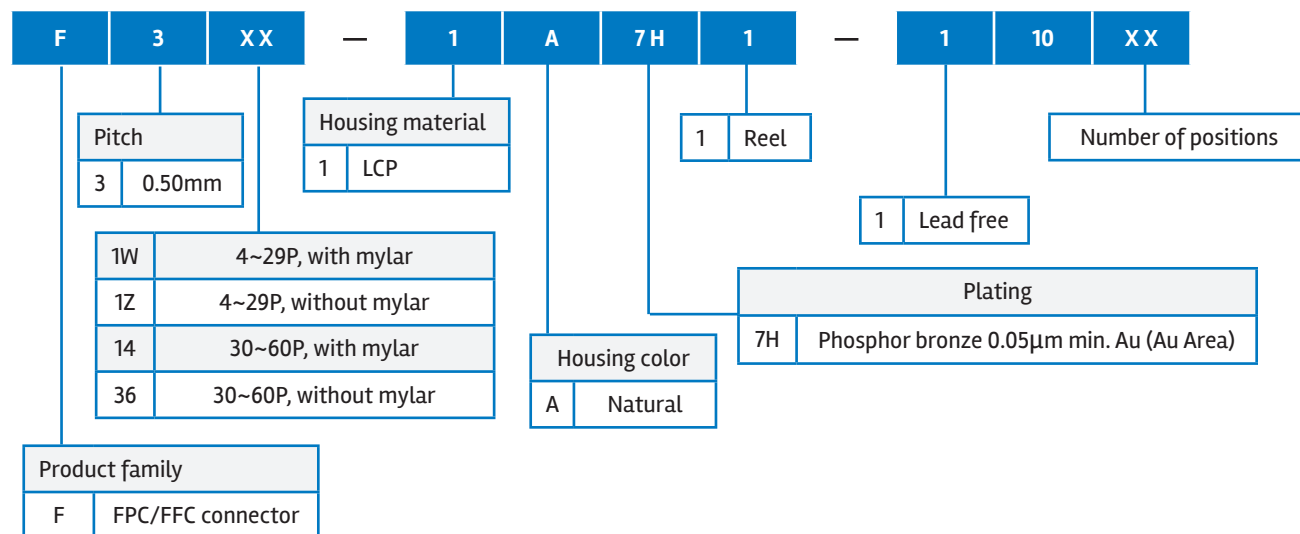


Sensing element
Monitoring camera
Human Machine Interface
Industrial PC
Robotics



Ultrasonic
Patient Monitor
MRI
CT
Infusion Pump

PART NUMBER SELECTOR



AORORAF31W31Z3143360819EA4

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Amphenol:

[F31W-1A7H1-11008](#) [F31W-1A7H1-11014](#) [F31W-1A7H1-11016](#) [F31W-1A7H1-11018](#) [F31W-1A7H1-11020](#) [F31W-1A7H1-11024](#) [F31W-1A7H1-11012](#) [F314-1A7H1-11030](#) [F314-1A7H1-11034](#) [F314-1A7H1-11036](#) [F314-1A7H1-11040](#) [F314-1A7H1-11045](#) [F31W-1A7H1-11010](#) [F31W-1A7A1-11006](#) [F31W-1A7A1-11008](#) [F31W-1A7A1-11012](#) [F31W-1A7A1-11020](#) [F31W-1A7H1-11015](#) [F31W-1A7A1-11009](#) [F31W-1A7A1-11010](#) [F31W-1A7A1-11014](#) [F31W-1A7A1-11015](#) [F31W-1A7A1-11016](#) [F31W-1A7A1-11018](#) [F336-1A7H1-11041](#) [F336-1A7H1-11055](#) [F31Z-1A7H1-11006](#) [F336-1A7A1-11030](#) [F336-1A7A1-11034](#) [F336-1A7A1-11036](#) [F336-1A7A1-11040](#) [F336-1A7H1-11037](#) [F336-1A7H1-11039](#) [F31W-1A7A1-11021](#) [F31W-1A7A1-11024](#) [F31W-1A7H1-11006](#) [F31W-1A7H1-11009](#) [F31W-1A7H1-11011](#) [F31W-1A7H1-11021](#)

FCI / Amphenol:

[F3361A7H111030](#) [F3361A7H111034](#) [F3361A7H111036](#) [F3361A7H111040](#) [F3361A7H111045](#) [F3361A7H111050](#) [F31Z1A7H111008](#) [F31Z1A7H111015](#) [F31Z1A7H111016](#) [F31Z1A7H111024](#) [F31Z1A7H111009](#) [F31Z1A7H111011](#) [F31Z1A7H111012](#)