

# 0.50mm Pitch FFC/FPC - F31X/F31Y Series

#### **VERTICAL ZIF FLEX CONNECTOR**

F31X/F31Y 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 29 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
- Strong FFC/FPC retention force makes it vibration-proof
- Ensures high solderability and high durability



#### **FEATURES**

- ZIF (Zero Insertion Force) mechanism
- Slider mechanism
- Design against solder and flux wicking
- High-temperature thermoplastic housing
- 4 to 29 positions available
- Lead and halogen-free

#### **BENEFITS**

- Absence of frictional mating wear results in high mating cycle life
- Easy to operate and strong FFC/FPC retention makes it vibration-proof
- Ensures high solderability
- Wide operating temperature range of -40°C to +105°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)
0.06~2.08kgf/min. (after 30 cycles)

• Terminal Retention Force: 100gf/terminal min.

Anchor-Plate Retention Force: 400gf/plate min.

Durability: 30 mating cycles

#### **ELECTRICAL PERFORMANCE**

Voltage Rating: 50VAC/VDC

Current Rating: 0.5A

■ Contact Resistance: 30mΩ max.

• Insulation Resistance: 500M $\Omega$  min.

• Dielectric Withstanding Voltage: No short or breakdown after 500VAC, 2mA, 1min.

#### APPROVALS AND CERTIFICATIONS

• UL File Number: E106764

RoHS compliant

#### **ENVIRONMENTAL**

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

#### **SPECIFICATION**

Aorora Product Specification: IS.EQC.012

#### **PACKAGING**

■ Tape & Reel

#### 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

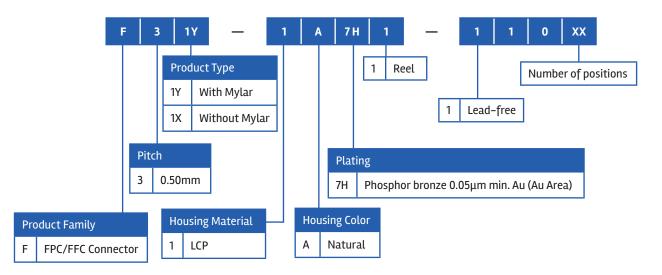


Sensing Element Monitoring Camera Human Machine Interface Industrial PC Robotics



Ultrasonic Patient Monitor MRI CT Infusion Pump

## **PART NUMBER SELECTOR**



ARORAFPCF31XF31Y0823EA4