

1.00mm Pitch FFC/FPC – F518/F519 Series

RIGHT ANGLE NON ZIF FLEX CONNECTORS

F518/F519 series are 1.00mm pitch right-angle non-ZIF flex connectors with surface mount termination and no locking mechanism. These connectors feature a height of 3.00mm and come in 4 to 30 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.

- Single action low-force FFC/ FPC insertion and removal
- High solderability and durability



TARGET MARKETS



FEATURES

- Non-ZIF (Zero Insertion Force) mechanism requires some force for insertion
- No locking mechanism
- Design against solder and flux wicking
- High-temperature thermoplastic housing
- 4 to 30 positions available
- Lead and halogen-free

BENEFITS

- Single action low-force FFC/FPC insertion and removal
- 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, Black color (UL94V-0)
- Contact: Phosphor Bronze, T=0.25mm
- Anchor-plate: Brass, T=0.20mm

MECHANICAL PERFORMANCE

- FFC/FPC Retention Force: 30gf/terminal min.
- Anchor-plate Retention Force: 300gf/plate min.
- Durability: 30 mating cycles

ELECTRICAL PERFORMANCE

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

PACKAGING

- Tape & Reel

APPROVALS AND CERTIFICATIONS

- UL file number E106764
- RoHS compliant

SPECIFICATION

- Aorora Product Specification: IS.EQC.005

ENVIRONMENTAL

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

TARGET MARKETS/APPLICATIONS



Car Multimedia
Car Navigation
Dashboard
PND



Router
Server
ODD
HDD



Base Station
Power
Switches



Sensing element
Monitoring camera
Human Machine Interface
Industrial PC
Robotics



Notebook
Tablets
Wearables
Gaming
DSC
LCD & PDP TV



Ultrasonic
Patient Monitor
MRI
CT
Infusion Pump

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