

FlexFast™ Flex-to-Board

MORE FLEXIBLE ASSEMBLY AUTOMOTIVE GRADE CONNECTOR SYSTEM

FlexFast™ FPC-to-Board connector's compact design address the growing demand for automotive application market. The connector design is compliant to USCAR-T3V2 and LV-214 S1 specifications.

The connector has nominal current carrying capacity of 1A per contact.

FlexFast™ 1.80mm pitch is available in 40 positions single flex with right angle SMT configuration.

- USCAR-T3V2, LV-214 S1 compliant
- Gold plating reduces mating force
- Optional position and pitch
- CPA (Connector Position Assurance)
- FPA (Flex Position Assurance)
- FPC and FFC in compatibility
- Double beams and contacts
- Scoop proof
- Low height of 8.0mm max.



TARGET MARKETS



FEATURES

- Gold plating process for terminal
- Low height of 8.0mm max.
- CPA (Connector Position Assurance)
- FPA (Flex Position Assurance)
- Double beams and contacts

BENEFITS

- Low mating and un-mating force
- Space saving
- Ensures that connectors are properly mated and locked together
- Ensures proper flex insertion position and retention
- Better vibration and contact performance

TECHNICAL INFORMATION

MATERIAL

- Connector Contact: Copper Alloy
- Housing: High temperature UL 94V-0
- Plating: Gold plated

MECHANICAL PERFORMANCE

- Durability: 100 cycles (Gold)
- Mating/Un-mating Force: 75N max.
- Connector Retention Force: 110N min.
- Flex Retention Force: 110N min.

ELECTRICAL PERFORMANCE

- Voltage Rating: 60VAC/VDC
- Insulation Resistance: 100MΩ min.
- Contact Resistance: 25mΩ max. (initial)
- Current Rating: 1A
- Low Level Contact Resistance: <25mΩ
- Dielectric Withstand Voltage: 500VAC

PACKAGING

- Header: Tape and reel
- Receptacle Housing: Tape and reel

APPROVALS AND CERTIFICATIONS

- USCAR T3V2
- LV 214 S1

SPECIFICATION

- Product Pitch: 1.80mm, 2.00mm
- Flex Stiffener Thickness: 0.45mm
- PCB Termination: 1.60mm

ENVIRONMENTAL

- Operating Temperature Range: -40°C to +125°C

TARGET MARKETS/APPLICATIONS

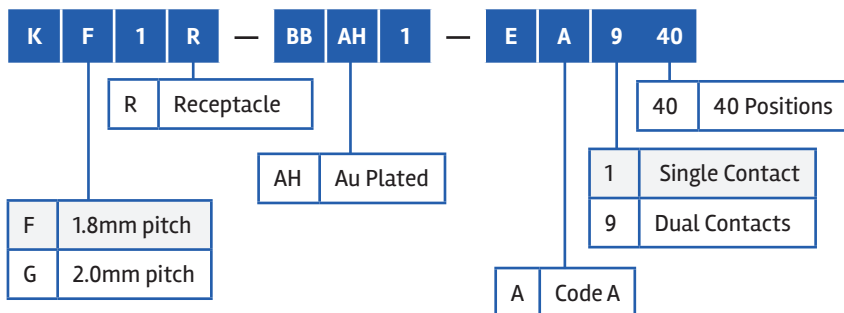


BMS (Battery Management System)
OBC (On-board Charger)
MCU (Micro Control Unit)

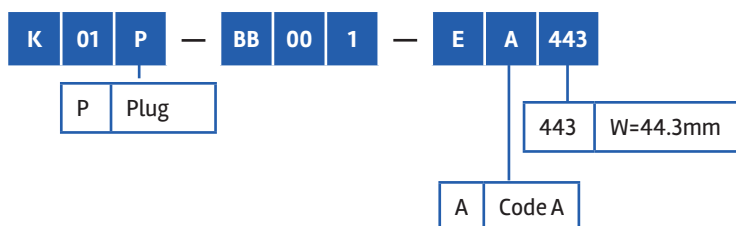


Robotics

PART NUMBER SELECTOR-RECEPTACLE



PART NUMBER SELECTOR-PLUG



PART NUMBERS

Description	Part Numbers
FlexFast™, Receptacle R/A, 1.8mm pitch , 40 Position, Code A, Dual contact	KF1R-BBAH1-EA940
FlexFast™, Receptacle R/A, 1.8mm pitch , 20 Position, Code A, Single contact	KF1R-BBAH1-EA120
FlexFast™, Plug , 1.8mm pitch , 40 Position	K01P-BB001-EA443