

FlexFast™ Mini Flex-to-Board

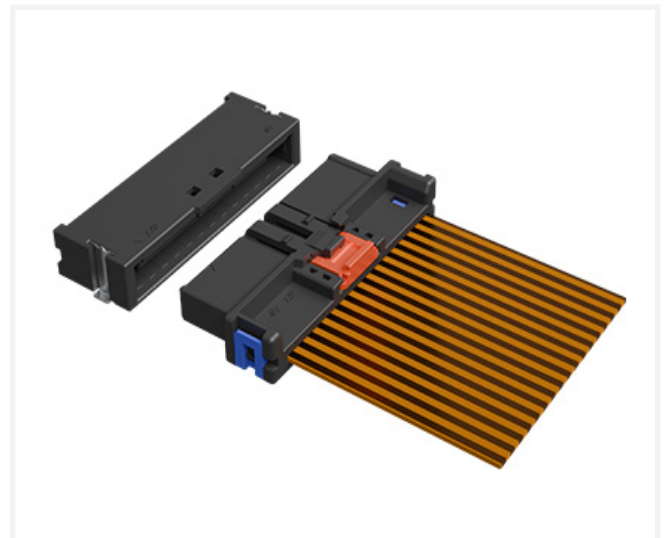
MORE FLEXIBLE ASSEMBLY AUTOMOTIVE GRADE CONNECTOR SYSTEM

FlexFast™ Mini Flex-to-Board connector's compact design addresses the growing demand for the automotive applications market. The connector is designed to be compliant with USCAR and LV-214 specifications.

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

FlexFast™ Mini 1.0mm pitch is available in a 22-position configuration. It features a single flex design with a right angle SMT configuration.

- USCAR, LV-214 compliant
- Gold plated reduce mating force
- Position and pitch optional
- CPA (Connector Position Assurance)
- FPA (Flex Position Assurance)
- FPC and FFC in compatibility
- Double beams and contacts
- Scoop proof
- Low height of 5.5mm 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 UL94V-0
- Plating: Gold plated

MECHANICAL PERFORMANCE

- Durability: 30 cycles
- Mating/Un-mating Force: 45N max.
- Connector Retention Force: 75N min.
- Flex Retention Force: 110N min.

ELECTRICAL PERFORMANCE

- Voltage Rating: 12VAC/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
- LV-214

SPECIFICATION

- Product Pitch: 1.80mm, 0.50mm
- Flex Stiffener Thickness: 0.40mm
- PCB Termination: 1.60mm

ENVIRONMENTAL

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

TARGET MARKETS/APPLICATIONS

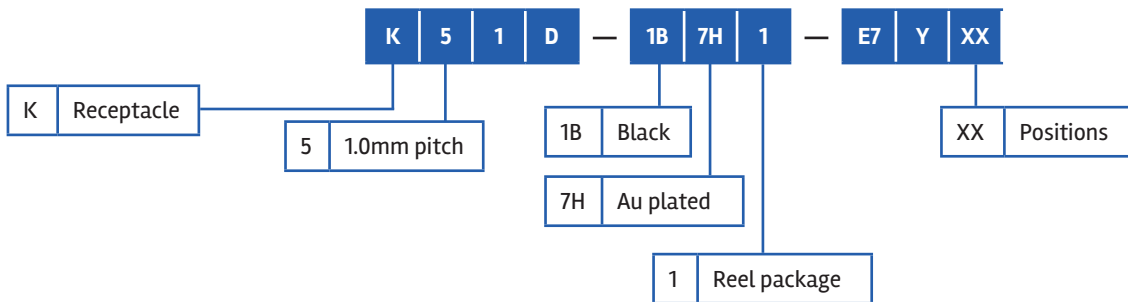


BMS (Battery Management System)
OBC (On-board Charger)
MCU (Micro Control Unit)

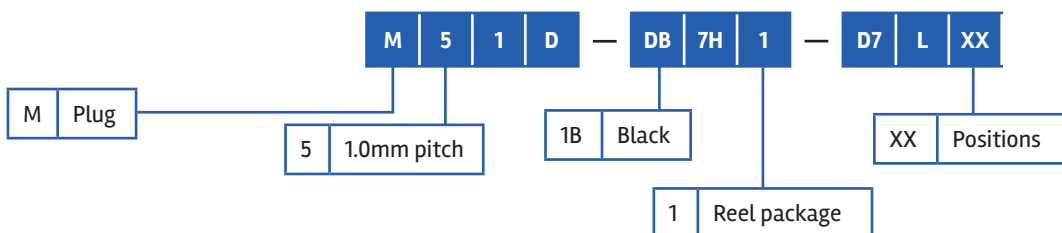


Robotics

PART NUMBER SELECTOR-RECEPTACLE



PART NUMBER SELECTOR-PLUG



PART NUMBERS

Description	Part Numbers
FlexFast™ Mini, Receptacle R/A, 1.0mm Pitch, 22 Position, Code A, H5.5mm	K51D-1B7H1-E7Y22
FlexFast™ Mini, Plug, 1.0mm Pitch, 22 Position, Code A	M51D-DB7H1-D7L22

Find part number details using the search box on www.amphenol-cs.com