

FitMate™ 2.00 mm Single-Row with Active Latch

MODULAR AND FINE PITCH WIRE-TO-BOARD SOLUTION

Designed for fine pitch wire-to-board applications, Amphenol's FitMate™ 2.00 mm is the ideal solution for devices that require connectors with robust features and a compact design.

With a wire gauge range from 28 AWG to 20 AWG, these connectors are available in single-row, vertical/right-angle, and DIP/SMT configurations.

- Active latch lock
- Current rating up to 3 A
- Accommodates wire range from 28 AWG to 20 AWG



TARGET MARKETS



FEATURES

- Compact, Low-Profile design
- Shrouded header
- Gold-plated version
- UL 94 V-0 flammability-rated material
- RoHS compliant and Lead-free

BENEFITS

- Saves PCB space and enables slimmer device designs
- Prevents incorrect mating and protects contacts during assembly
- Ensures reliable signal transmission and improved corrosion resistance
- Enhances product safety with high flame resistance
- Meets global environmental and regulatory standards

TECHNICAL INFORMATION

MATERIAL

- Header:
 - Housing: High-temperature plastic, UL 94V-0
 - Connector: Phosphor Bronze with Tin/Gold flash
- Receptacle: PA66, UL 94 V-0
- Crimping Terminal: Phosphor Bronze

ELECTRICAL PERFORMANCE

- Insulation Resistance: 100 MΩ min.
- Voltage Rating: 250 V AC (RMS)/DC
- Contact Resistance: 30 mΩ max. (initial)
- Current Rating: 3 A

MECHANICAL PERFORMANCE

- Durability: 50 cycles
- Mating Force: Refer to product spec.
- Unmating Force: Refer to product spec.

ENVIRONMENTAL

- Operating Temperature Range: -25 °C to +105 °C

APPROVALS AND CERTIFICATIONS

- UL Approval: Pending

SPECIFICATIONS

- Product Specification: GS-12-1651
- Packaging Specification: Refer to package drawing

PACKAGING

- PCB Header: Tape/Reel
- Receptacle Housing: Bag
- Crimping Terminal: Reel

TARGET MARKETS/APPLICATIONS



Cooking Machine
Office Equipment
Test & Measurement
Point-of-sale Terminal
Portable Terminal



Smart Home Device
Vacuum Cleaner Robot

PART NUMBERS

Description	Part Numbers
FitMate™ 2.00 mm header, right angle, DIP, Active Latch	10190884*
FitMate™ 2.00 mm header, vertical, DIP, Active Latch	10157575*
FitMate™ 2.00 mm header, right angle, SMT, Active Latch	10157576*
FitMate™ 2.00 mm header, vertical, SMT, Active Latch	10157577*
FitMate™ 2.00 mm receptacle, Active Latch	10157578*
FitMate™ 2.00 mm Crimping Terminal, Active Latch	10157579*

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

FitMate™ 2.00 mm Single-Row

MODULAR AND FINE PITCH WIRE-TO-BOARD SOLUTION

Designed for fine pitch wire-to-board applications, Amphenol's FitMate™ 2.0 mm is the ideal solution for devices that require connectors with robust features and a compact design.

With a wire gauge range from 30 AWG to 24 AWG, these connectors are available in single-row, vertical/right-angle, and DIP/SMT configurations.

- Compact, Low-Profile Design
- Current rating up to 2 A
- Accommodates wire range from 30 AWG to 24 AWG



TARGET MARKETS



FEATURES

- Compact, Low-Profile design
- Shrouded header
- Gold-plated version
- UL 94 V-0 flammability-rated material
- RoHS compliant and Lead-free

BENEFITS

- Saves PCB space and enables slimmer device designs
- Prevents incorrect mating and protects contacts during assembly
- Ensures reliable signal transmission and improved corrosion resistance
- Enhances product safety with high flame resistance
- Meets global environmental and regulatory standards

TECHNICAL INFORMATION

MATERIAL

- Header:
 - Housing: High-temperature plastic, UL 94 V-0
 - Connector: Phosphor Bronze with Tin/Gold flash
- Receptacle: PA66, UL 94 V-0
- Crimping Terminal: Phosphor Bronze

ELECTRICAL PERFORMANCE

- Insulation Resistance: 1000 MΩ min.
- Voltage Rating: 100 V AC (RMS)/DC
- Contact Resistance: 10 mΩ max. (initial)
- Current Rating: 2 A

MECHANICAL PERFORMANCE

- Durability: 30 cycles
- Mating Force: Refer to product spec.
- Unmating Force: Refer to product spec.

ENVIRONMENTAL

- Operating Temperature Range: -25 °C to +85 °C

APPROVALS AND CERTIFICATIONS

- UL Approval: Pending

SPECIFICATIONS

- Product Specification: GS-12-2178
- Packaging Specification: Refer to package drawing

PACKAGING

- PCB Header: Tape/Reel
- Receptacle Housing: Bag
- Crimping Terminal: Reel

TARGET MARKETS/APPLICATIONS



Cooking Machine
Office Equipment
Test & Measurement
Point-of-sale Terminal
Portable Terminal



Smart Home Device
Vacuum Cleaner Robot

PART NUMBERS

Description	Part Numbers
FitMate™ 2.0 mm header, right angle, DIP	10195132*
FitMate™ 2.0 mm header, vertical, DIP	10157435*
FitMate™ 2.0 mm header, right angle, SMT	10175877*
FitMate™ 2.0 mm header, vertical, SMT	10176653*
FitMate™ 2.0 mm receptacle	10157436*
FitMate™ 2.0 mm Crimping Terminal	10157437*

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

EXPLORE THE PRODUCT DETAILS ONLINE
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