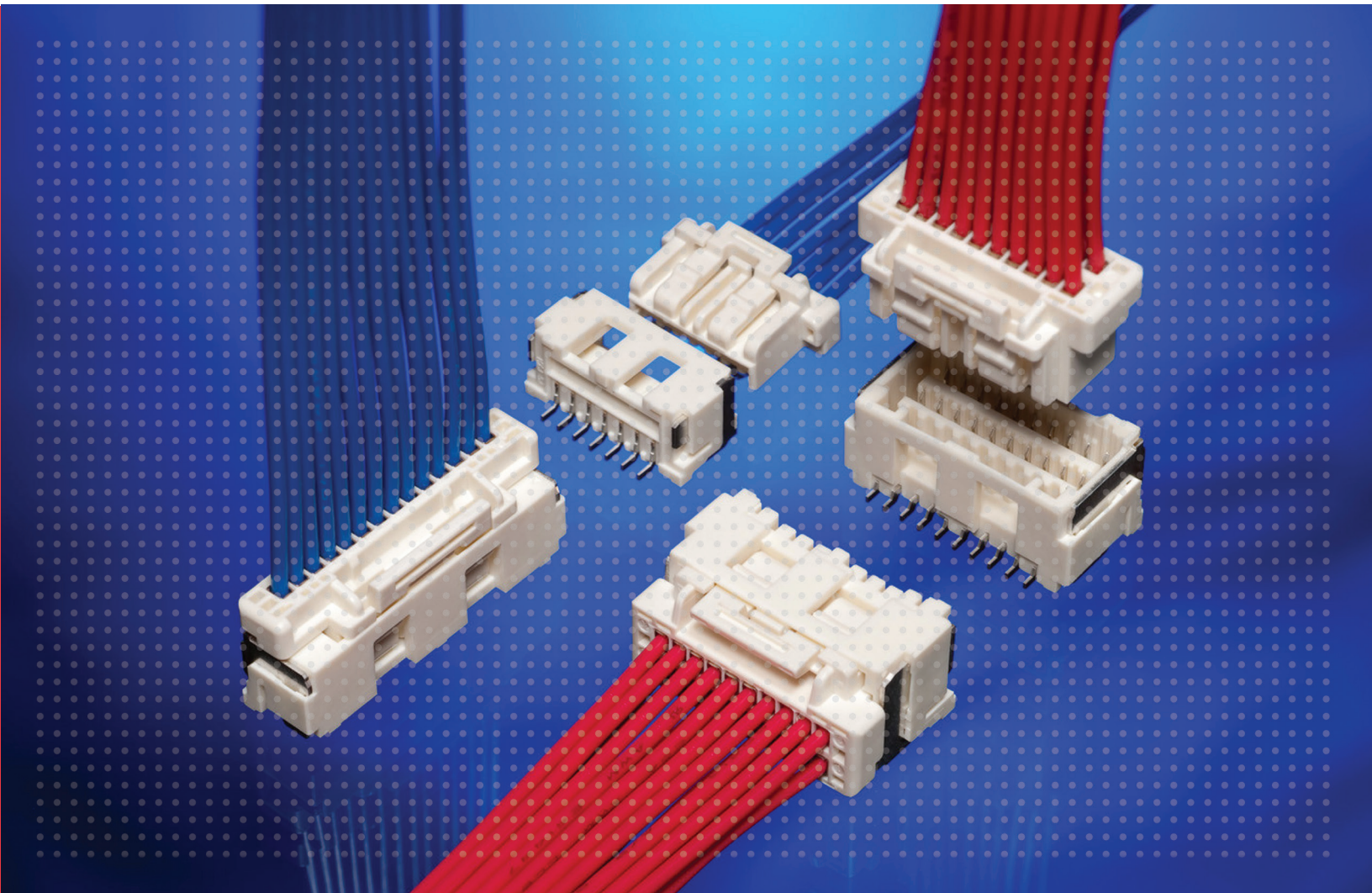
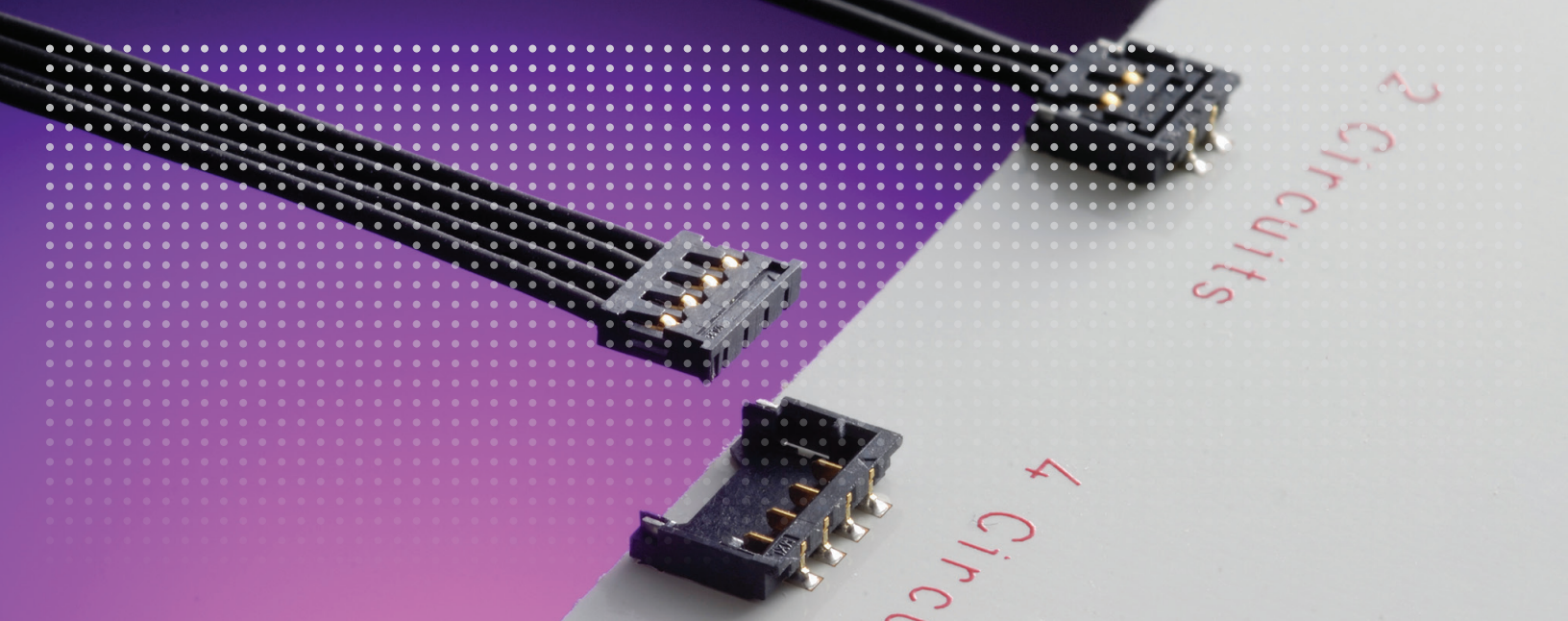


MICROMINIATURE WIRE-TO-BOARD SYSTEMS > DESIGN GUIDE



molex[®]



Molex offers a wide range of Microminiature Wire-to-Board and Wire-to-Wire interconnect products. They help design, develop and manufacture finished electronic and electrical products effectively by enabling modularization and miniaturization. All board side SMT connectors are packed in tape and reel to help enable automatic processing. Molex provides application tooling to support building wire assemblies using all of the wire side connectors. These products are used in a wide range of industries and applications listed below.

APPLICATIONS

Transportation and Automotive

- GPS Tracking Systems
- Various In-dash Units and Modules
- Interior and Door Mirrors
- Cameras
- Gear Shifters
- Radios and Navigations
- Rear-seat Entertainment and Infotainment Systems
- Steering Wheels and Key Locks
- Overhead Consoles
- Vehicle Lightings

Consumer and Mobile

- Tablets
- E-books
- NotePCs
- PNDs
- Flat TVs
- Printers and Copiers

Appliance and Retail

- Gaming and Amusements
- Fitness Machines
- Refrigerators
- Washers and Dryers
- HVAC
- Vending Machines
- Ovens
- Thermostats
- Smoke Detectors
- Kiosk Terminals and Screens
- POS Terminals
- ATM Machines
- Barcode Scanners
- Power Tools
- Garage Door Openers
- Water Heaters
- Electronic Water Fountains/Dispensers

Industrial and LED Lighting

- Security Systems
- Downlights
- Striplights
- Street Lights
- Utility Smart Meters
- Servo Motors
- Testers
- Robotic Systems
- 3D Printers
- Industrial Drives
- Room sensors

Medical

- Patient Monitoring Devices
- Glucose/Blood Pressure Devices
- Pulse Oximetry
- Wearable/Fitness Meters
- Handheld Surgical Devices
- Drug Delivery Systems
- Catheters
- Medical Imaging Applications

DESIGN YOUR MICRO WIRE-TO-BOARD SOLUTION



For PCB wafers and housings, X or XX indicates circuit count for the component.

For terminals, different numbers come in to the location of X to indicate packaging style, applicable wire size or material difference.

Pico-Clasp™ (1.00mm pitch, AWG 28 - 32)

- Dual Row
- 20-, 30-, 40-, and 50-Circuit
- Gold Plated
- Positive Lock

Vertical Header



501190-XX17

Right-Angle Header



501571-XX07

MATES TO



Housing



501189-XX10

+

Terminal



501193-3X00

+

Tooling



63819-1500

- Single Row
- 2- to 15-Circuit
- Tin Plated
- Friction Lock (2 - 5)
- Positive Lock (6 - 15)

Vertical Header



501331-XX07

Right-Angle Header



501568-XX07

MATES TO



Housing



501330-XX00

+

Terminal



501334-0X00

+

Tooling



63819-1500

- Single Row
- 3- to 5-Circuit
- Tin Plated
- Positive Lock

Vertical Header



501940-XX07

Right-Angle Header



501953-XX07

MATES TO



Housing



501939-XX00

+

Terminal



501334-0X00

+

Tooling



63819-1500

Pico-EZmate™ (1.20mm pitch, AWG 28 - 30)

- 2- to 7-Circuit
- Right-Angle
- Gold Plated
- Z-axis mating

Header



78171-000X (for 2- to 5-pin)
78171-500X (for 6- and 7-pin)

MATES TO



Housing



78172-000X (for 2- to 5-pin)
78172-500X (for 6- and 7-pin)

+

Terminal



78172-041X

+

Tooling



63823-0100 (AWG 30)
63819-4800 (AWG 28)

Contact your local Molex authorized distributors for crimped wire leads.

Contact your Molex sales engineer about supplying custom or standard jumpers using the above components.

DESIGN YOUR MICRO WIRE-TO-BOARD SOLUTION



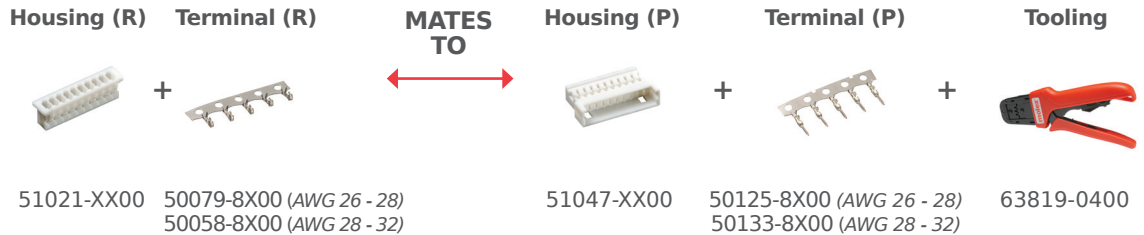
For PCB wafers and housings, X or XX indicates circuit count for the component.
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PicoBlade™ (1.25mm pitch, AWG 26 - 32)

- Single Row
- 2- to 15-Circuit
- Tin Plated
- Friction Lock

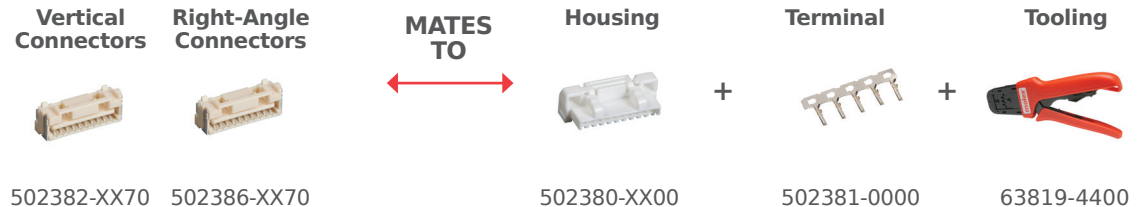


- Single Row
- 2- to 10-Circuit
- Tin Plated
- Friction Lock



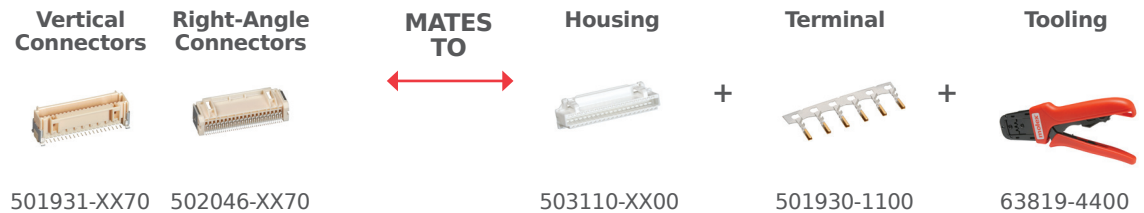
CLIK-Mate™ (1.25mm pitch, AWG 26 - 28)

- Single Row
- 2- to 15-Circuit
- Tin Plated
- Positive Lock



Duo-Clasp™ (1.25mm pitch, AWG 26 - 28)

- Dual Row
- 20-, 30- and 40-Circuit
- Gold Plated
- Positive Lock



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DESIGN YOUR MICRO WIRE-TO-BOARD SOLUTION



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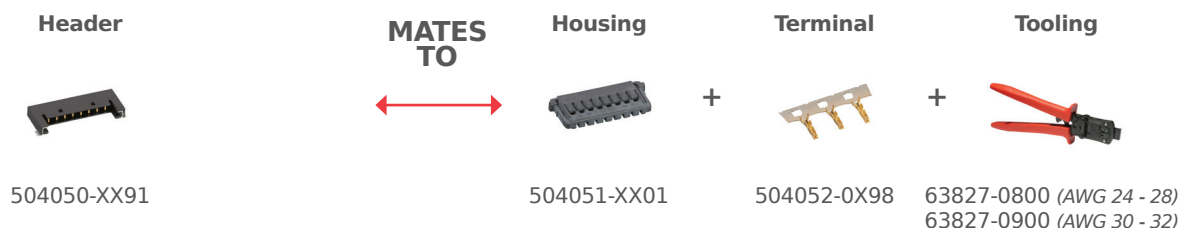
Pico-Spox™ (1.50mm pitch, AWG 24 - 30)

- Single Row
- 2- to 15-Circuit
- Tin Plated
- Friction Lock



Pico-Lock™ (1.50mm pitch, AWG 24 - 32)

- 4- to 12-Circuit
- Right-Angle
- Gold Plated
- Positive Lock



CLIK-Mate™ (1.50mm pitch, AWG 24 - 30)

- Single Row
- 2- to 15-Circuit
- Tin Plated
- Positive Lock

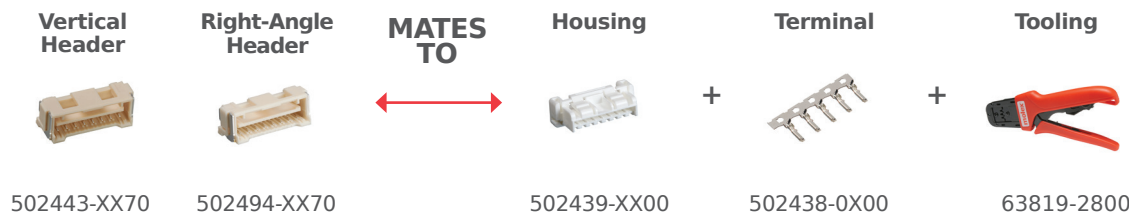


- Dual Row
- 8- to 34-Circuit
- Tin Plated
- Positive Lock



CLIK-Mate™ (2.00mm pitch, AWG 22 - 26)

- Single Row
- 4- to 15-Circuit
- Tin Plated
- Positive Lock



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Get customized insights at: **molex.com**