



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# Industrial Mini I/O Connector

## HIGHLY RELIABLE, FIELD INSTALLABLE AND COMPACT I/O SOLUTION

Industrial Mini I/O connector is a compact wire-to-board interface which is field installable in virtually any environment.

- Field installable plug kit
- One quarter the size of a conventional RJ45
- Highly reliable connection with 2 points of contact per line
- Two unique interfaces to prevent mismatching
- Unique locking feature with high cable retention force within the metal housing, resulting in minimal space required



### TARGET MARKETS



### FEATURES

- Meets Cat 5e specifications; 1000Mbit/s speed performance
- Compact size compared to conventional RJ45
- 2 points of contact per line
- Unique locking feature with high cable retention force
- Plug kit field installable
- Two unique interfaces
- Up to 1500 mating cycles
- Versatile solution supporting a wide variety of applications
- High temperature thermoplastic housing

### BENEFITS

- Superior signal integrity
- Saves up to 75% space
- Reduce contact failure
- Enable increased productivity and continuity in high vibration environment
- Protects plug from accidental pulling and unplugging
- Prevents expensive downtime in an industrial environment
- Time saving termination
- Easy to use hand tool which allows field assembly in virtually any environment
- Prevents mismatching
- Enhanced durability
- Ideal for PLCs, Robotics, Industrial communications, Motion and Drives
- Ensures high temperature resistance

## TECHNICAL INFORMATION

### MATERIAL

- Housing: High Temperature Thermoplastic
- Shell: Copper Alloy
- Terminal: Copper Alloy

### MECHANICAL PERFORMANCE

- Durability: up to 1500 mating cycles
- Extraction Force: 98N min.
- Mating Force: 30N max.
- Unmating Force: 30N max.
- Insulation Resistance: 500Mohms min.
- Cable Diameter: 7.1mm max.
- Wire Size: 30AWG to 22AWG

### ELECTRICAL PERFORMANCE

- Rated Voltage: 30V
- Current Rating: 0.5A

### PACKAGING

- Tray
- Tape/Reel

### SPECIFICATION

- Amphenol Product Specification: GS-12-1345, GS-12-1346 and GS-12-1347
- Amphenol Packaging Specification: GS-14-2538

### APPROVAL AND CERTIFICATION

- UL E66906

### ENVIRONMENTAL

- Operating Temperature: -40°C to +85°C

### TARGET MARKETS/APPLICATIONS



Industrial Communications  
Motion and Drivers  
PowerLine Communication (PLC) Connections  
Robotics

## PART NUMBERS

Description	Part Numbers
Industrial Mini I/O 1.27mm pitch 8P Header Assembly, Right Angle, SMT, Type I	10137237-0010LF
Industrial Mini I/O 1.27mm pitch 8P Header Assembly, Right Angle, SMT, Type II	10137237-0020LF
Industrial Mini I/O Plug Kit, D-Shape, Type I, without extended lock ejector	10137846-0010LF
Industrial Mini I/O Plug Kit, D-Shape, Type II, without extended lock ejector	10137846-0020LF
Industrial Mini I/O Plug Kit, D-Shape, Type I, with extended lock ejector	10137846-0011LF
Industrial Mini I/O 1.27mm pitch Receptacle, Vertical, SMT, Type I	10137238-0010LF
Industrial Mini I/O 1.27mm pitch Receptacle, Vertical, SMT, Type II	10137238-0020LF
Industrial Mini I/O 1.27mm pitch Receptacle, Vertical, PIP, Type I	10137849-0010LF
Industrial Mini I/O 1.27mm pitch Receptacle, Vertical, PIP, Type II	10137849-0020LF
Industrial Mini I/O 1.27mm pitch Header Assembly, Right Angle, PIP, Type I	10137850-0010LF
Industrial Mini I/O 1.27mm pitch Header Assembly, Right Angle, PIP, Type II	10137850-0020LF
Industrial Mini I/O Piercing Plug Kit, Top Shell, Type I, Insulation Diameter 1.05-1.15mm (L)	10137239-0010LF
Industrial Mini I/O Piercing Plug Kit, Top Shell, Type I, Insulation Diameter 0.93-1.05mm (M)	10137239-0011LF
Industrial Mini I/O Piercing Plug Kit, Top Shell, Type II, Insulation Diameter 1.05-1.15mm (L)	10137239-0020LF
Industrial Mini I/O Piercing Plug Kit, Top Shell, Type II, Insulation Diameter 0.93-1.05mm (M)	10137239-0021LF
Industrial Mini I/O Piercing Receptacle Kit, Top Shell, Type I, Insulation Diameter 1.05-1.15mm (L)	10137851-0010LF
Industrial Mini I/O Piercing Receptacle Kit, Top Shell, Type I, Insulation Diameter 0.93-1.05mm (M)	10137851-0011LF
Industrial Mini I/O Piercing Receptacle Kit, Top Shell, Type II, Insulation Diameter 1.05-1.15mm (L)	10137851-0020LF
Industrial Mini I/O Piercing Receptacle Kit, Top Shell, Type II, Insulation Diameter 0.93-1.05mm (M)	10137851-0021LF

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