



## Introducing Industrial Mini I/O connector

The Industrial Mini I/O connector system is a small, compact, latching, wire-to-board I/O interface that is now also available as a vertical version, enabling you to safely and reliably connect in all angles. TE's Industrial Mini I/O solution allows you to save up to 75 percent of space compared to conventional RJ45 plugs, giving you the flexibility to use your limited space on the PCB more efficiently.

### Reliable connections

Designed with two points of contact, this connector is built for the stringent demands of an industrial and high vibration environment, enabling increased productivity through a reliable connection. The compact latching feature provides a high retention force of up to 98 N which protects the plug from accidental pull and unmating, reducing downtime, unstable connections and unnecessary consequential losses. Available in 2 polarized versions to prevent mismatching, the Industrial Mini I/O connector is easy to connect. It is most commonly used as an RJ45 replacement, and the newly available vertical version allows for even more connection opportunities.

### KEY FEATURES

- Small, compact size
- Vertical Mini IO
- SMT and Through Hole available
- Two unique interfaces to prevent improper connections

### APPLICATIONS

- Industrial Communications
- Motion & Drives
- PLC's
- Robotics

### MECHANICAL

- Operating Temperature: -40 °C ~ +85 °C
- Durability: 1500 Cycles
- Cable retention force: 98 N

### ELECTRICAL

- 30 V rated
- Current rating: 0.5 A

### MATERIALS

- Shell: Copper alloy
- Contact: Copper alloy
- Housing: Thermoplastic

### STANDARDS AND SPECIFICATIONS

- Meets Cat5E requirement when used in an Ethernet application Product specification: 108-78405
- Application specification: 114-5431

### PRODUCT OFFERING

Part Number	Description
1981080-1	INDUSTRIAL MINI I/O HDR ASSY, Right Angle, SMT, Type I
1981386-1	INDUSTRIAL MINI I/O HDR ASSY, Right Angle, SMT, Type II
2013595-1	Plug Kit Mini I/O Plug Kit Type I, Black Latch
2040008-1	Plug Kit Mini I/O Plug Kit Type II, Black Latch
1971885-1	INDUSTRIAL MINI I/O HDR ASSY, Vertical, SMT, Type I
1971885-2	INDUSTRIAL MINI I/O HDR ASSY, Vertical, SMT, Type II
1971886-1	INDUSTRIAL MINI I/O HDR ASSY, Vertical, THR, Type I
1971886-2	INDUSTRIAL MINI I/O HDR ASSY, Vertical, THR, Type II
2040537-1	INDUSTRIAL MINI I/O H-HDR ASSY, Right angle ,THR, Type I
1-2040537-1	INDUSTRIAL MINI I/O H-HDR ASSY, Right angle, THR, Type II
1971153-1	INDUSTRIAL MINI I/O BYPASS CONN TYPE I

### PRODUCT DIMENSIONS

- SMT Type (mm): 15.85 x 7.4 x 11.41
- Through Hole Type (mm): 19 x 7.4 x 12.35

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