



## 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 mismating, 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 and R/A Mini I/O board connectors
- 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

- 60 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
<b>2040537-1</b>	INDUSTRIAL MINI I/O H-HDR ASSY, Right angle ,THR, Type I
<b>1-2040537-1</b>	INDUSTRIAL MINI I/O H-HDR ASSY, Right angle, THR, Type II
<b>2013595-1</b>	Plug Kit Mini I/O Plug Kit Type I, Black Latch
<b>2013595-2</b>	Plug Kit Mini I/O Plug Kit Type I, White Arrow on Latch
<b>2013595-3</b>	Plug Kit Mini I/O Plug Kit Type I, Grey Housing
<b>2069577-1</b>	Plug Kit Mini I/O Plug Kit Type I, Black Latch (Bag 100 Pcs)
<b>2069577-2</b>	Plug Kit Mini I/O Plug Kit Type I, White Arrow on Latch (Bag 100 Pcs)
<b>2069577-3</b>	Plug Kit Mini I/O Plug Kit Type I, Grey Housing (Bag 100 Pcs)
<b>2069577-4</b>	Plug Kit Mini I/O Plug Kit Type I, Yellow Housing, White Arrow on Latch (Bag 100 Pcs)
<b>2040008-1</b>	Plug Kit Mini I/O Plug Kit Type II, Black Latch
<b>2040008-2</b>	Plug Kit Mini I/O Plug Kit Type II, White Latch
<b>2069578-1</b>	Plug Kit Mini I/O Plug Kit Type II, Black Latch (Bag 100 Pcs)
<b>2069578-2</b>	Plug Kit Mini I/O Plug Kit Type II, White Arrow on Latch (Bag 100 Pcs)
<b>2069578-3</b>	Plug Kit Mini I/O Plug Kit Type II, Yellow Housing, White Arrow on Latch (Bag 100 Pcs)
<b>2069250-1</b>	Plug Kit Mini I/O Plug Kit Type I, Black Extended Latch
<b>2069772-1</b>	Plug Kit Mini I/O Plug Kit Type I, Black Extended Latch (Bag 100 Pcs)
<b>1971153-1</b>	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

While TE has made every reasonable effort to ensure the accuracy of the information in this document, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this document are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE for the latest dimensions and design specifications.

[te.com/products/mini-io](http://te.com/products/mini-io)

