



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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te.com/products/mini-io

