

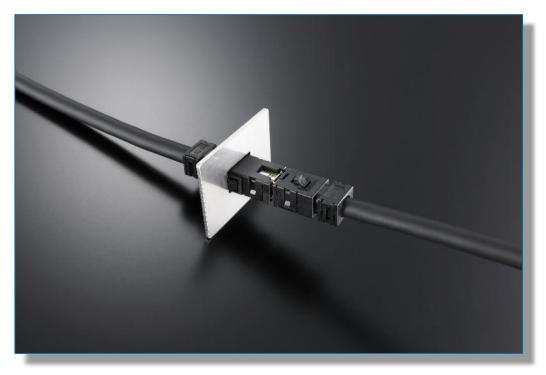
INDUSTRIAL MINI I/O CONNECTOR FIELD INSTALLABLE



EVERY CONNECTION COUNTS

Industrial Mini I/O – Field Installable

TE's Industrial Mini I/O connector provides innovative and timesaving wire-termination alongside serving as a space saving and reliable I/O solution for industrial environments.

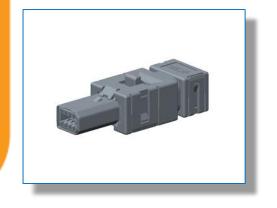




Industrial Mini I/O – Field Installable



- Innovative and time-saving wire-termination
- Reliable connections in industrial and vibration-prone environments
- Space saving solution that allows for increased design flexibility



- Available in different versions for multiple applications
- Intermateable with receptacles in different configurations (TMT, SMT, right and straight angle)



Industrial Mini I/O – Smaller than RJ45





✤ Size advantage

- With only one quarter the size of conventional RJ45 plugs, the Industrial Mini I/O connector provides critical space saving.
- The limited space on the PCB can be used more efficiently.
- The Field Installable Mini I/O version offers an innovative piercing termination that additionally decreases the time usually needed to terminate the wires through soldering and with an easy to use hand tool.
- Field Installation of the Industrial Mini I/O is now possible in virtually any environment.

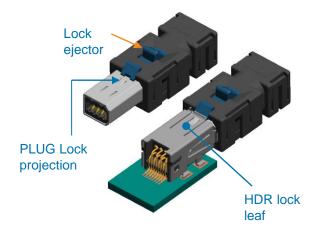
Traditional RJ45 vs Industrial Mini I/O connector

75%space saving





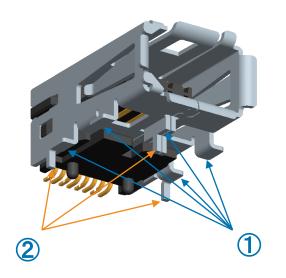
Industrial Mini I/O – More reliable than RJ45



- Accidental unplugging of a network connection due to shock, vibration, pulling on cords, etc.
 causes expensive downtime in an industrial environment
- Industrial Mini I/O's unique locking system is specified to 100N of pull out force



Industrial Mini I/O – More reliable than RJ45



① Solder pad at 5 points

2 Peg has through whole anchor (3/5)

Solder pads are used to fix the SMT connector to a PCB.

Generally this is done at 2 points.

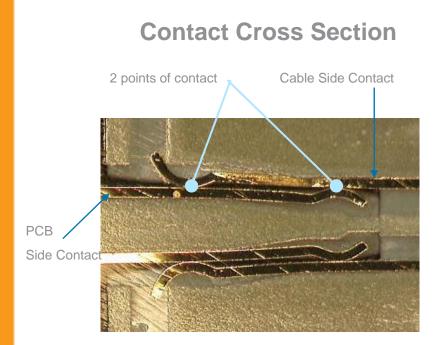
However, Industrial Mini I/O has 5 points which enhances the strength.

The second part to secure interface is proper board retention

- This header design has 2 features to enable required retention strength:
 - Solder pads at 5 points
 - 3 pegs with through hole anchor



Industrial Mini I/O – More reliable than RJ45



- Contact System known as the "Fighting Snake Principle"
- Multiple points of contact reduce contact failures
- Au plated products improve conductivity and contact lifespan
- Overall design = Improved Reliability for Customer Networks



Industrial Mini I/O – Field Installable

One trusted partner for your satisfaction

- One of the leading companies in connectivity, TE offers short lead times and dedicated service through a broad distribution network.
- With our global footprint and local sales teams in all regions, TE is able to offer the support you expect, making it easy to do business with us.
- Easy-to-use and easy-to-choose: At TE, you will find what you are looking for; and if you have any questions, our Technical experts are there for you – 24 hours a day.
- As one of the most innovative companies in the world, TE provides industry-leading products and technologies that help you solve your problems – now and in the future.



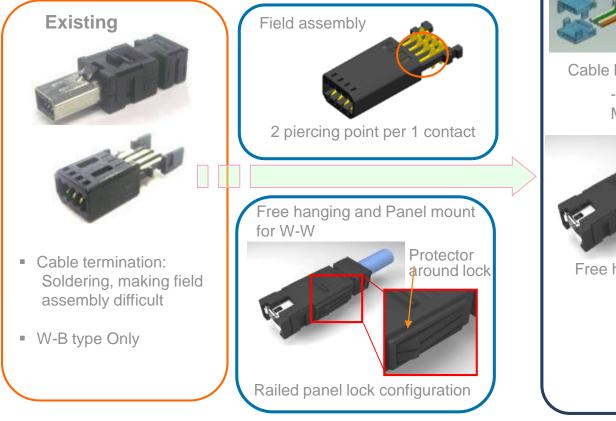


The Idea Behind It

Feature of New development

- · Field assembly at an in-house of customer's factory
- W-W, W-B are available

• Common shape for free hanging and panel mount for W-W with railed panel lock configuration





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Product Specifications

- Product Specifications (Design Objectives)
 - Voltage Rating 30V
 - Current Rating 0.5A
 - Temperature Rating -40°C~70°C
 - Durability 750cycles
 - Meet transmission performance of Cat5e
 - Applicable Cable

AWG 24~26

(Insulation Outside Diameter: Dia. 0.93~1.05&1.05~1.15mm)

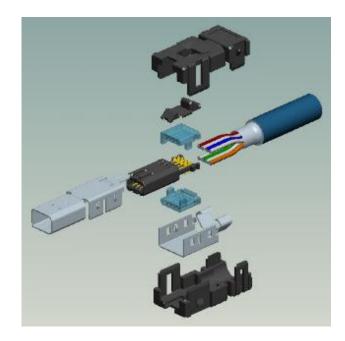
• Outer Cable Diameter 7.1mm Max



Concept Plug Kit

Plug Kit

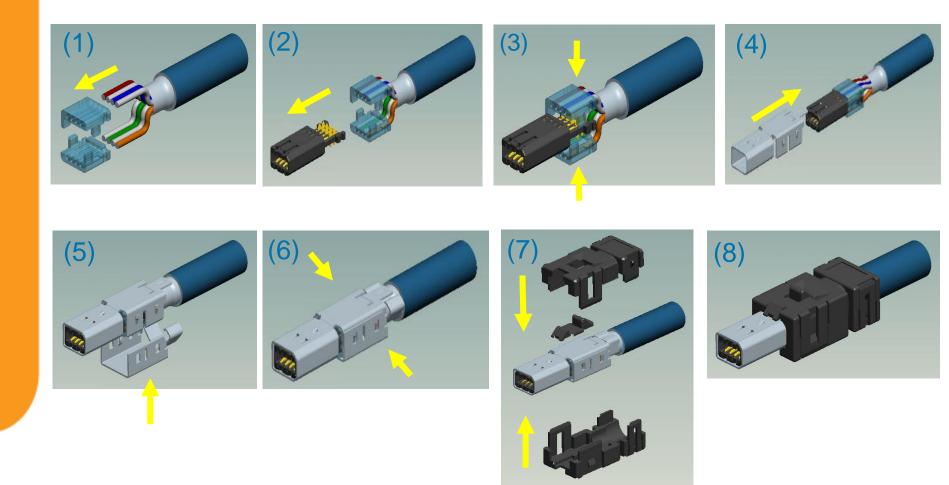




Pa Nu	ırt ımber	Name	Applicable wire
22	01855-1	Plug KIT Type I L size	AWG 24~26 Stranded Wire insulation OD: 1.05-1.15 Cable OD : 7.1Max
22	01855-2	Plug KIT Type I M size	AWG 24~26 Stranded Wire Insulation OD: 0.93-1.05 Cable OD : 7.1Max

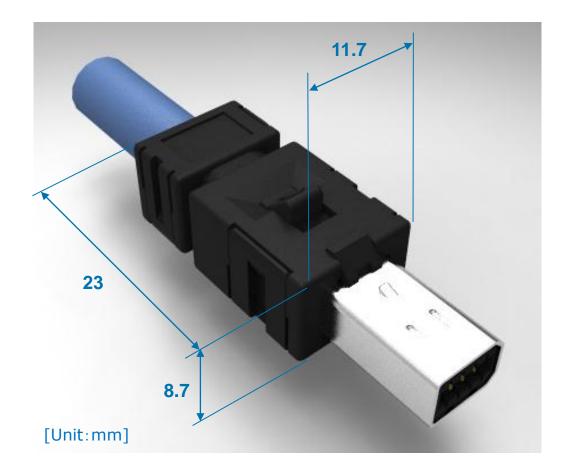


Plug cable connector assembly





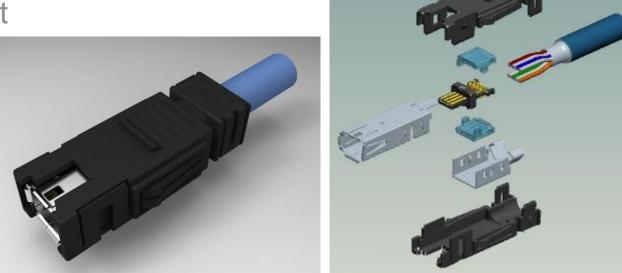
Plug dimensions





Concept Receptacle Kit

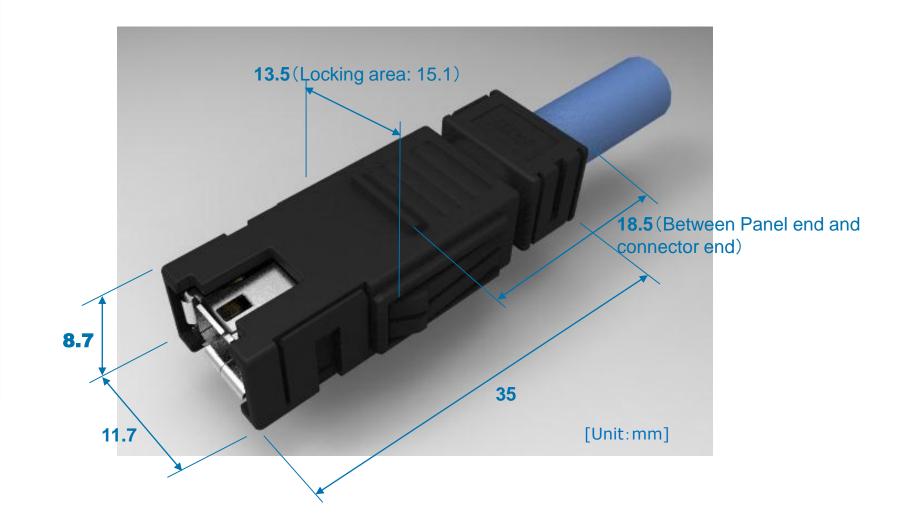
Receptacle Kit



Part Number	Name	Applicable wire
2201864-1	REC KIT Type I L size	AWG 24~26 Stranded Wire insulation OD: 1.05-1.15 Cable OD : 7.1Max
2201864-2	REC KIT Type I M size	AWG 24~26 Stranded Wire Insulation OD: 0.93-1.05 Cable OD : 7.1Max

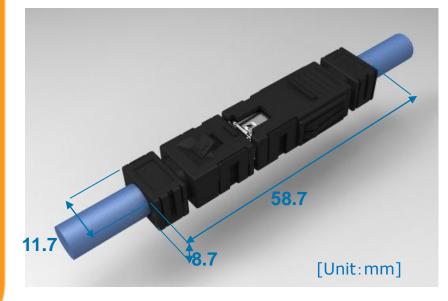


Receptacle dimensions

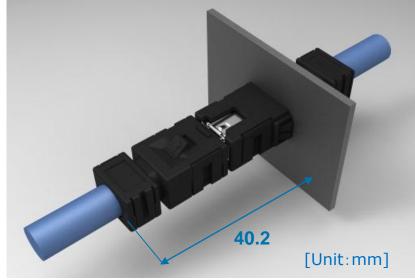




Mating overview

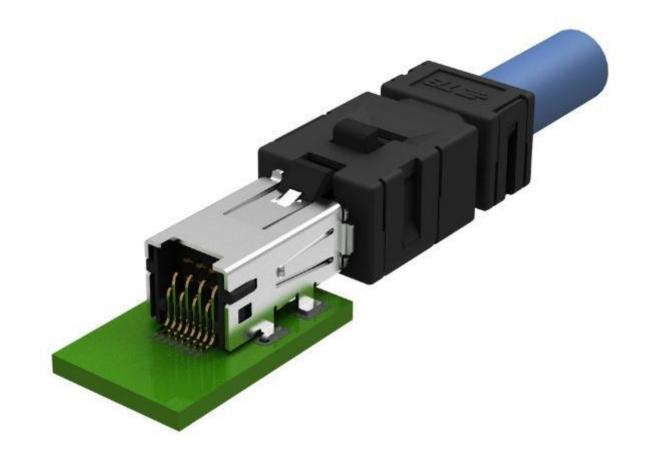


With Panel





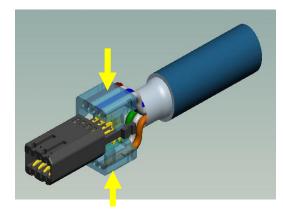
Compatible with other Mini I/O headers



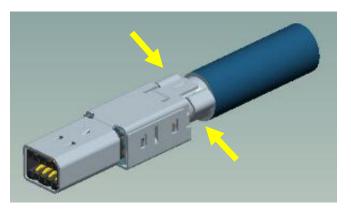


Hand Tool for Field Installation

Wire termination and cable crimp is available with one hand tool



Wire termination



Cable crimp



Find more at...

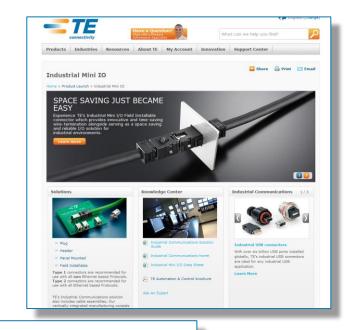
Mini I/O homepage

te.com/products/mini-io

- **Product information** -
- **Further documents**
- Order samples -

Mini I/O flyer

- Complete overview of product portfolio
- Part numbers and drawings -





KEY FEATURI Small Compact Size

Introducing Industrial Mini I/O connector, ield Installable version

wire-termination	 8 position 	Wire-to-board O.635 mm pitch				
strial and ts	30 V rated	Current rating: 0.5 AMPS				
llows for	MATERIALS	MATERIALS				
is for multiple	Shell: Copper all	oy Contact: Copper alloy Housing: Them	oplastic			
les in different	n different STANDARDS AND SPECIFICATIONS					
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	Application spec	ification: 114-5506				
savings)	PRODUCT OFF	ERING				
on .	Part Number	Description				
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TMT)	2201855-2	MINI (/D PLUG KIT TYPE I M				
nis-mating	1-2201855-2	MINI VO PLUS KIT TYPE II M				
	2201855-3	MINI (/O PLUG KIT TYPE I LM MIX				
	2201864-1	MINI VO REC KIT TYPE I L				
	1-2201864-1	MINI (/O REC KIT TYPE II L				
	2201864-2	MINI VO REC KIT TYPE I M				
	1-2201864-2	MINI VO REC KIT TYPE I M				
	2201864-3	MINI VO REC KIT TYPE I LM MIX				
	2229737-1	HAND TOOL				
	2260170-1	CARLE FITTING				
*C to +85 *C	PRODUCT DIM	ENSIONS				
	- Plug Kit: 11.62 x 34 x 8.7 mm					
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Making Every Connection Count. Especially The One We Make With You.

