

Class 1

Mini I/O Cat5e Field Installable Cable Plug**1. Scope**

This manual describes the assembly of Mini I/O Cat 5e Field Installable (FI) Cable Plug.

2. Technical Data

The technical data are described in following documents / die technischen Daten sind in folgenden Dokumenten beschrieben

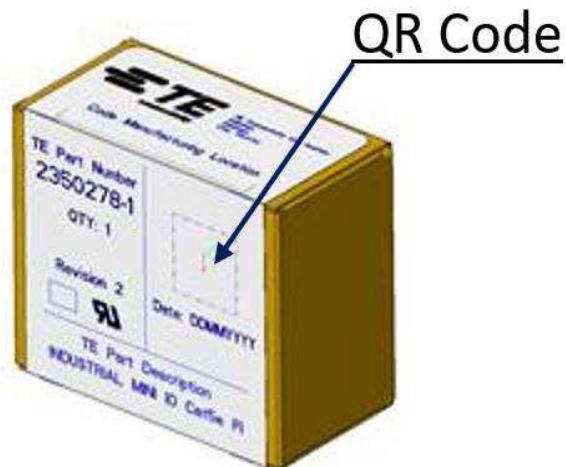
Customer Drawing	2350278 / 2350304 / 2350310/ 2350323
Product Specification	108-94740-1
Packaging Specification	107-18136

This Product described is applicable with following Receptacle Headers and related Application Specification

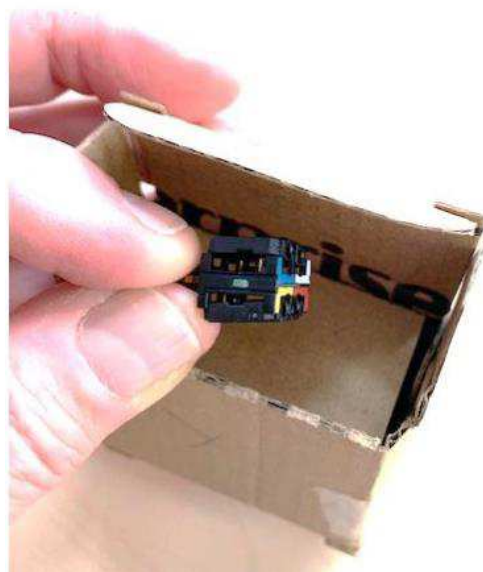
PN 2294417	114-32132	INDUSTRIAL MINI I/O CONN. 1.27MM PITCH 8P HDR ASSY SMT EMBOSS
PN 1981080	114-31132	INDUSTRIAL MINI I/O CONN. 1.27MM PITCH 8P HDR ASSY D-SHAPE TYPE 1
PN 1981386	114-31132	INDUSTRIAL MINI I/O CONN. 1.27MM PITCH 8P HDR ASSY D-SHAPE TYPE 2
PN 2040537		INDUSTRIAL MINI I/O CONN 1.27MM PITCH HDR ASSY (DIP/H-TYPE) 8POS
PN 2069552		INDUSTRIAL MINI I/O CONN. 1.27MM PITCH 8P HDR ASSY EMBOSS TAPING
PN 2271656		SMT VERTICAL MINI I/O RECEPTACLE 1.27mm PITCH
PN 2294415	114-32132	INDUSTRIAL MINI I/O CONN. 1.27MM PITCH 8P HDR ASSY SMT TRAY

3. Single Packaging

A single package is sealed with the label on both sides. If the packaging is broken, please check the content for completeness. The label contains the part number and revision status of the product. The QR code leads you by scanning to further information on the TE website by reading it with a corresponding software application.

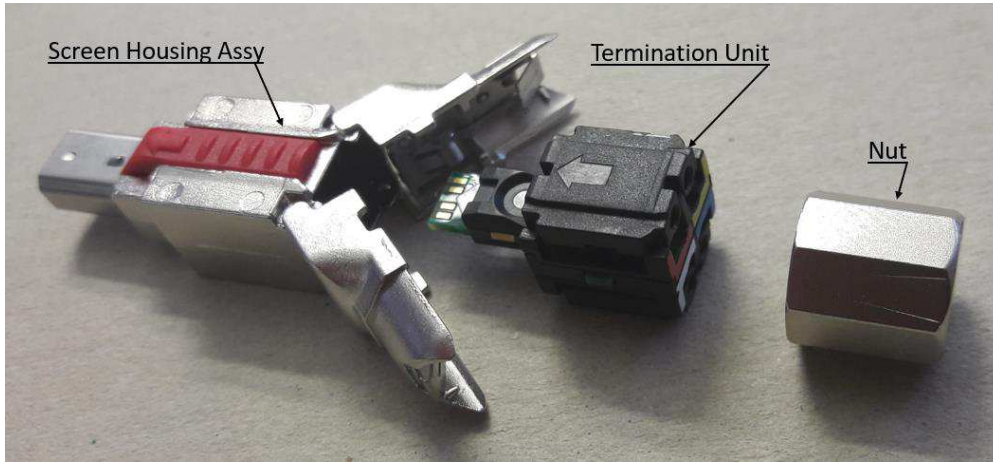


QR code for additional information / QR code für zusätzliche Informationen



Screen Housing Assy / Nut and Termination Unit separate packed on other side. Instruction Sheet packed on one side.

PN X-2350278-X Industrial Mini I/O Cat5e IE FI

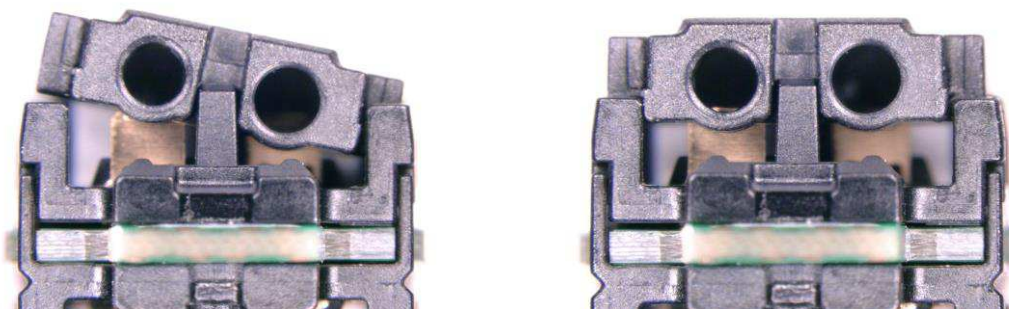


Recommended Stripping Tool P/N 6GK 1905-6AA00 made by SIEMENS






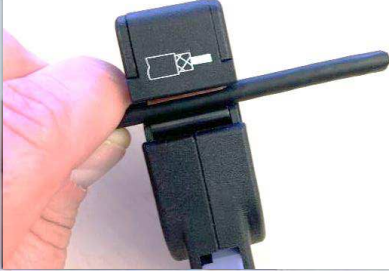

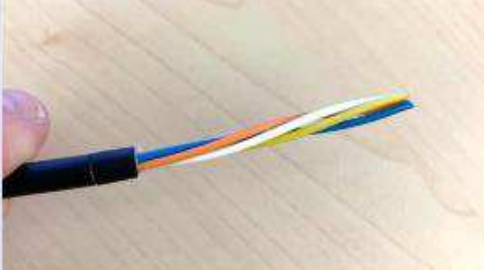
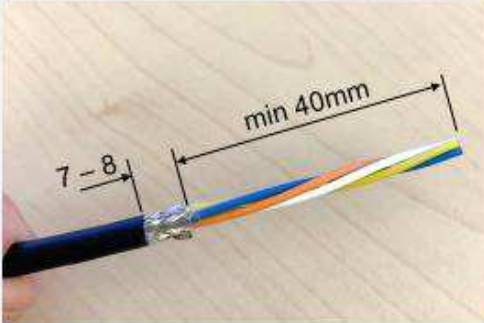
We recommend and used a PROFIBUS Stripping tool from SIEMENS with P/N 6GK 1905-6AA00 which creates a free length of 7mm cable braid applicable for cable dia. 5.0 – 9.0 mm.

Note



If the Wire Manager is pressed in after unpacking, it is fully functional again by simply pulling it straight.

4. Assembly Procedure

Step	Pictures	Tools	Comments
1			Move the nut over the open end of the cable
2		 <p>Tool adjusted to the cable diameters and required length [→ fig.1]</p>	Determine the required stripping length by holding the cable at the marking on the stripping tool and your hand fixing the cable
3		<p>Using a standard knife, pay attention to the cutting positions acc. to the [→ fig.1] below. Clean cut and undamaged insulation avoids short circuits in operation.</p>	Place the stripping tool next to your hand, close it and turn the stripping tool around the cable 4-5 times
4			Remove the stripping tool. The prepared cable is exposed for stripping the insulation.
5			Remove the first part of the insulation with the cable braid and additional layers below until the wires are visible.
6			Remove the remaining short insulation from the cable braid.

Pos.	Pictures	Tools	Comments
7		Crossing of wires might be necessary	Split the 4 wires and order them in matching the color code on the rear side of the Termination Unit [→step 8]
8			Guide the wires acc. to their colors through the channels of the cable managers and the cable braid (black arrows) as near as possible to the printed color code. Center the cable to the middle (red arrows).
9		 Preferred !	Close the termination unit with a tool. A parallel closing pliers is preferred, combi-pliers are allowed. The wires are contacted and cut to length in one step.
10			Press the pliers only so far that you can pull off all cut-off wire ends.
11			In case of a mismatch to the color code, the Termination Unit can be opened again with a screw driver from both sides. Reuse is possible up to 3 times. [see: step 18]
12		Re-termination only require, if the first termination must be repeated	Insert entirely the cable assembly. The white arrow on the PCB must be on the same side as the red Lock Ejector. Wrong orientation will be blocked by the housing .

Pos.	Pictures	Tools	Comments
13			The rear side of the termination unit must be flush with the rear wall of the outer housing.
14			Closing the connector, ensure the end of the insulation is positioned (arrow) behind the rib of the silver cable outlet. [for risks see: fig. 2]
15			The Termination Unit cable outlets are moving and fixing the Termination Unit in their final position, contacting the cable braid and activating the strain relief springs
16			Move the nut entirely over the 2 ends of the 2 cable outlets. While moving the nut, the small triangle at the nut is right beside the slot.
17			Twist the nut clockwise until the triangle on the nut is in line with the red Lock Ejector.
18			For opening the Termination Unit press the screw driver reciprocally on both sides between the plastic parts separating them on top/ bottom side.
		Not applicable... ... in case your first connection was successful.	

<u>LTR</u>	<u>REVISION RECORD</u>	<u>DWN</u>	<u>APP</u>	<u>DATE</u>
A	Application Spec. RELEASED	FM	MSZ	27.07.2020