

SOLARLOK SAFE LOCKS

PV CONNECTORS INTERFACE PROTECTION



MALE
2396108-1



FEMALE
2396109-1

**ENSURE SAFE WORKING CONDITIONS
FOR INSTALLERS WHILE PROTECTING
PV CONNECTORS**

APPLICATIONS

- Photovoltaic Connectors
- Photovoltaic Harness
- Solar Panels
- String Inverters
- Combiner Boxes
- DC Optimizers

RELEVANT STANDARDS AND TESTING

- Voltage up to 1500V DC
- IPX8 (24hrs Immersion - 1 meter depth)
- UV Resistant
- RoHS & Halogen Free

KEY FEATURES

- Connect mechanically with any connectors using the SSI Standard Solar Interface
- Facilitate labeling for the circuit identification with hole punched pull tabs
- Protect wire harness O-ring from premature degradation
- Protect the PV connectors' interface from harsh environments
- Provide reliable plug and play PV connector interface protection

TE Connectivity (TE) SOLARLOK Safe Locks provide protection for disconnected PV connectors from environmental exposure after installation and before energization. The connectors are easy to install and unlatch using the appropriate detachment tool (1971903-1).

In many cases, during harness or PV cable installation, connectors remain detached prior to energization, which can expose them to contamination from external elements such as moisture or dust.

Our design ensures that installers are not exposed to undesired interfaces, such as live wires, until the harness or PV cable with connectors is ready to be connected.

TECHNICAL SPECIFICATIONS

TCPN	Product Description	Length mm(Inches)	Weight (gms)	Maximum Voltage Rating VDC	Standard Packaging Quantity
2396108-1	SOLAR LOCK SAFE LOCK MALE	50.3 (1.98)	6.4	1500	500 pcs
2396109-1	SOLAR LOCK SAFE LOCK FEMALE	59.55 (2.34)	5.6		

DESIGN DATA

Material Type	PPE+PS
Material Color	Black
Material Properties	Solar Grade Resin
Design Specification	Connecting to the SSI Standard Solar Interface*
Operating Temperature Range	-40°C to +90°C (-40°F to 194°F)
Resistance to Impact	Meet UL6703 & IEC62852 requirements

*SAFE-TE connectors also works with certain other PV connector brands, please consult your TE representative for further information.

INSTALLATIONS INSTRUCTIONS

Product	Document Reference
2396108-1	EPP-3983-4/22
2396109-1	

ACCESSORIES- REQUIRES TE RELEASE WRENCH TO DISASSEMBLE



TE RELEASE WRENCH
1971903-1

STEP 1



STEP 2



DISASSEMBLY INSTRUCTIONS

Learn more: [TE.com/solar](https://www.te-connectivity.com/solar) | [TE.com/solarlok](https://www.te-connectivity.com/solarlok)

©2025 TE Connectivity. All Rights Reserved. EPP-4153-DDS-10/25

TE, TE Connectivity, TE connectivity (logo), EVERY CONNECTION COUNTS, SOLARLOK are trademarks owned or licensed by TE Connectivity. Other logos, product and company names mentioned herein may be trademarks of their respective owners. While TE has made every reasonable effort to ensure the accuracy of the information in this brochure, 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 Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. 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, specifications, and/or information contained herein are for reference purposes only and are subject to change without notice. Consult TE for the latest dimensions, specifications, and/or information. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

Connect with us:
[TE.com/solar-contact](https://www.te-connectivity.com/solar-contact)