

### **KEY FEATURES**

- 1-rail foil termination
- · Low profile
- · Allows potting, minimizes potting volume
- Protection levels: IP 20, IP 67
- Injection-molded technology with F-1 rated housing materials
- · Diode or no diode versions
- Simple, cost-effective design
- · Locking cover

#### **APPLICATIONS**

- For terminating the foils in thin-film panels
- Suitable for BiPV applications (building-integrated photovoltaics)

# Introducing

# SOLARLOK 1-rail Junction Box (Potting Version)

Ever wondered how to hide the junction box in BiPV applications? TE's new SOLARLOK 1-rail junction box, designed both for thin-film and BiPV potting applications, allows you to decentralize the two leads in separate locations on the back of the module. You can mount our low-profile SOLARLOK 1-rail junction box easily and unobtrusively on your panels and save two-thirds of the wiring as well. Save time, wiring, and offer nicer-looking panels to your customers, with all the performance and reliability that our larger junction boxes offer.

### **MECHANICAL**

- Allows decentralization of two leads to be put in separate location on back of the PV panel
- Overall junction box size: 58 x 30 x 13 mm
- Operating and storage temperature: -40 °C to +85 °C
- Applicable cable: 2.5 mm<sup>2</sup> (AWG 14) or 4.0 mm<sup>2</sup> (AWG 12)
- Foil termination is welded to the contact rail

#### **ELECTRICAL**

- · Isc up to 25 A no diode, 6 A with blocking diode
- Rated system voltage: 1,000 V (TÜV), 600 V (UL)
- Includes a plus and minus I/O for coming off a thin-film PV panel
- Connectors rated to 25 A

# **MATERIALS**

- · Contact rail: copper alloy
- Base housing: PA 66 (polyamide 66)
- Cover: PPO (polyphenylene oxide)

## **SPECIFICATIONS**

- Product specification # 108-106055
- Application specifications # 114-106008 and # 114-740013
- Test specification # 109-197

#### **PRODUCT OFFERING**

Part number	Description
1971645-1	Assembly, plus, no diode
1971645-2	Assembly, minus, no diode
1971645-3	Assembly, plus, with blocking diode

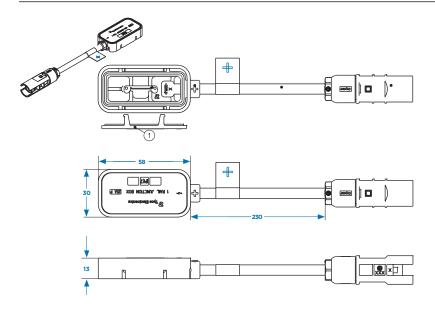


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# **STANDARDS**

- UL 1703 approval, pending
- TÜV approval, pending
- EIA-364, pending
- Safety class 2, pending
- DIN VDE V 0126-5, pending

# **PRODUCT DIMENSIONS (in mm)**



#### **RECOMMENDED ADHESIVES**

- · Single component silicone adhesive
- Dow Corning PV-804 Neutral Sealant, white, for glass PV panel back
- Tonsan 1527, gray/white, for glass PV panel back Potting silicone adhesive
- Dow Corning PV7321
- Tonsan 1521 A/1521 B

# **APPLICATION TOOLING**

Part number	Description
1-1579004-1	Hand crimp tool for screw machine contacts (1.5 mm² and 2.5 mm²)
1-1579004-2	Hand crimp tool for screw machine contacts (4.0 mm² and 6.0 mm²)
0-1102855-3	Extraction tool
1-1579002-2	Insulation stripper



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