

连接器安装说明书 PV-JK03M2-F Fuse Connector

Installation Manual for PV-JK03M2-F Fuse Connector



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1.产品简介 Products Overview



2.工具及配件简介 Tools and Parts Overview

Item	Tool Type	Tool Name	Pic.
1	JKT-04	通用工具 Universal Tool	
2	4JB03M31005 4JB03M31007	防尘塞 Dust Plug	

3.技术参数 Technical Data

型号名称 Type Name or Model No.	PV-JK03M2-F
额定电压 Rated Voltage (V DC)	1500 V DC
额定绝缘测试电压 Rated Insulation Test Voltage	8000 V
额定脉冲电压 Rated impulse Voltage	16 kV
额定电流(IEC 85℃) Rated Current (IEC 85℃) (A DC)	30 A (MAX)
应用等级 Application Class	Class A
过电压等级 / 污染等级 Over Voltage Category / Pollution Degree	CAT III / 2
工作温度范围 Operating Temperature Range	- 40℃ to +85℃

温度上限 Upper Limiting Temperature	115℃ (IEC)
防护等级 Protection Class	Class II
防火等级 Flame Class	UL94 V-0
防护等级，插合状态 / 未插合状态 Degree of Ingress Protection, mated / unmated	IP65 / IP68(1m, 2h) in mated condition IP2X in unmated condition
接触电阻 Contact Resistance	≤0.5 mΩ
触点材料 Contact material	铜，镀锡 Copper, tin plated
绝缘材料 Insulation Material	PA/PC
认证标准 Certification Standard	IEC 62852

4.工具使用说明 Tools Instruction

◇ 通用工具 JKT-04;

Universal tool JKT-04:

作用：用于拆卸连接器。

Function: Assembling and disassembling connectors.



作用：打开锁紧装置

Function: To open the locking device

Universal Tool JKT-04

5. 安装说明 Installation Instruction

5.1 连接器安装 Installation of Connector

- ✧ 保险丝连接器与公母电缆连接器插合：使用公母电缆连接器与保险丝连接器进行对插，直至其啮合。拉拔对插的连接器，检查保险丝连接器与公母电缆连接器是否完全连接好（如图 1）。禁止安装未完全耦合的连接器，避免锁扣失效，安装时须检查是否对插到位（如图 2）。

Insert the fuse connector with the male and female cable connector until they engaged. Pull the plug connector and check whether the fuse connector and the male and female cable connector are completely connected (Fig. 1). Do not install connectors that are not fully coupled to avoid lock failure. Check whether the connectors are properly inserted (Fig. 2).



Figure 1

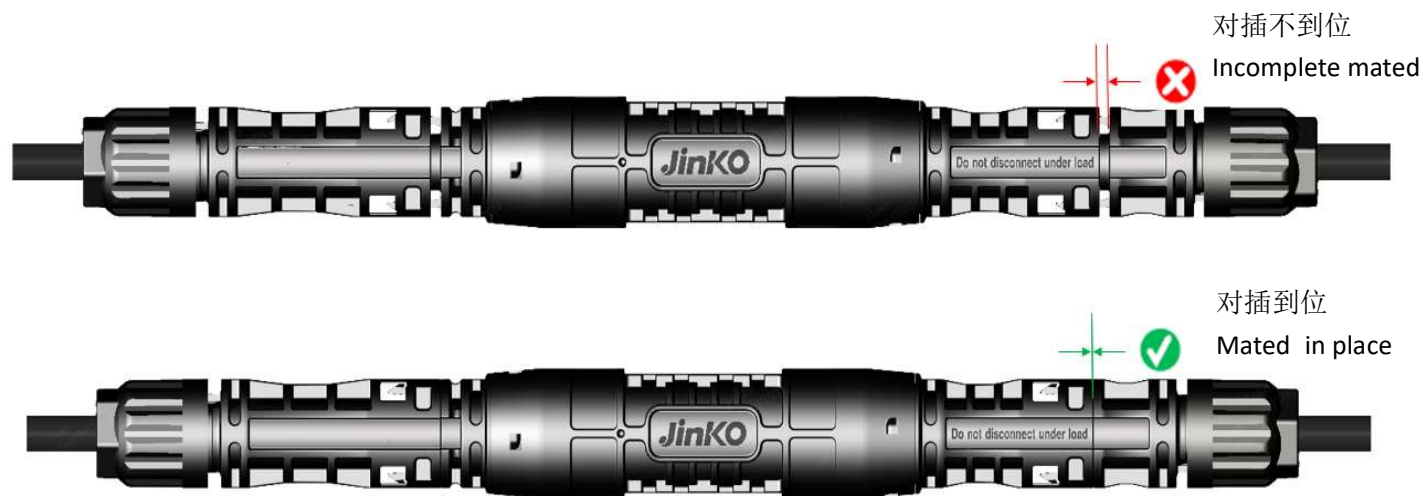


Figure 2

5.2 连接器拆卸 Disassembling Cable Connector

- ✧ 使用通用工具带有插销的一端插入连接器的卡扣位置。

Insert the forks into the buckle of the cable connector by the universal tool.

- ✧ 用左右手分别拉拔连接器，即可分开分支连接器与公母电缆连接器（如图 3）。

Separating the branch connector from the male and female cable connector by pulling the connector with both left and right hands (Fig. 3).

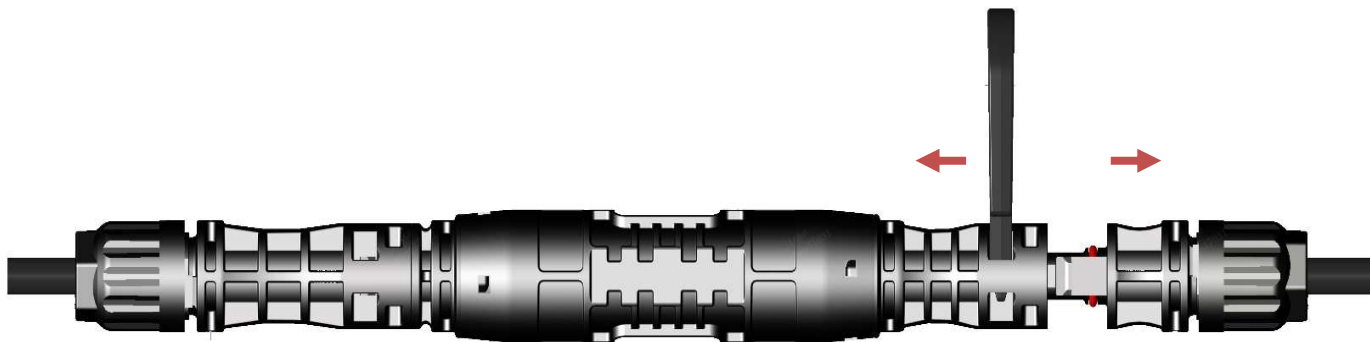


Figure 3

5.3 安装提示 Installation Warning

- ✧ 在自行安装时，如果所用的部件和工具不是 JinKO 官方指定的，或者没有按照官方要求进行准备和安装操作，我们将不保证产品的安全性和技术参数的一致性。

If parts and tools used are not specified by JinKO or not prepared and assembled as JinKO described during installation, the safety and technical data on products are not guaranteed.

- ✧ 产品在运输、储存过程中，不可有过分承压，撞击等破坏产品的行为。

During the transportation and storage, there should be no excessive pressure, impact and other acts of damaging the product;

- ✧ 产品在运输、储存时应注意避光、防水、防尘等。

The product should be protected from light, water and dust during transportation and storage

- ✧ 连接器只有按照安装说明指定的方式组装时，才被认定符合 UL 6703。

The connector is considered to be in compliance with UL 6703 only when assembled in the manner specified by these assembly instructions.

- ✧ 在安装过程中，应避免接触汽油、机油、丙酮、酒精、脱膜剂、灌密封胶、TBP、清洗剂、除草剂、防锈剂、除垢剂等可能会造成连接器功能失效的物质，同时需注意施工人员的手套不能带有以上物质。被污染的连接器不能插合使用。

During the installation process, it should be avoided to contact with gasoline, oil, acetone, alcohol, mold release agent, potting glue, TBP, cleaning agent, herbicide, rust inhibitor, scale remover and other substances that may cause connector function failure. At the same time, the construction personnel's gloves must not contain the above substances. The contaminated connector cannot be inserted and used.

- ✧ 连接器在安装、使用过程中，不可将连接器拖在水中、草丛中、地上等，防止连接器使用前内部受到污染，降低产品性能。

During installation and using, the connector must not be dragged in the water, grass, ground, etc., to prevent the connector from internal pollution and reduction of product performance before using.

- ✧ 在负载的情况下，禁止断开光伏连接器。可通过关闭直流/交流转换器或切断交流电信号，使其处于无载状态，则可在允许范围带电插拔。

PV connectors must not be disconnected while under load. They can be placed in a not load state by switching off the DC/AC converter or breaking the AC circuit, then insertion and removal is permitted within the allowable range.

- ✧ 长期不对插连接或断开连接时必须盖上防尘塞（4JB03M31005&4JB03M31007）以防止灰尘和湿气。同时产品在沿海、沙漠等粉尘、粉尘、灰尘多的地域使用，产品出厂前必须带防尘帽。

When disconnected for a long time, the dust plug（4JB03M31005&4JB03M31007） must be covered to prevent dust and moisture. On the other hand, if the product is going to be used in dust areas such as coastal and desert, it should come from factory directly with the dust plugs.

- ✧ 插头状态后的连接器符合 IP68 水密性的标准。但是它们不适合长期在水下使用。请勿将连接器直接放置在屋顶表面。连接器在未耦合情况下，产品将不能满足任何 IP 防护等级，也不能正常使用。

The connector in the plugged state meets the IP68 watertight standard. They are not suitable for long-term underwater use. Also, do not place the connector directly on the roof surface. If the connector are not coupled, the product will not meet any IP protection class and will not be used normally.

- ✧ 电气安装说明应包含根据美国国家电气规范 ANSI/NFPA 70 所使用的布线方法的详细描述。

The electrical installation instructions shall include a detailed description of the wiring method to be used in accordance with the National Electrical Code, ANSI/NFPA 70.

- ✧ 基于安全方面的考虑，禁止将 JinkO 的连接器（或零件）与非 JinkO 原产的连接器（或零件）连接。如果这些连接器（未经 JinkO 认证）与 JinkO 连接器（或零件）连接并产生损害，我们对此不承担任何责任。

For safety reasons, it is prohibited to connect JinkO connectors (or parts) with those not originally produced by JinkO. We assume no liability for any damage that occurs when these connectors (not certified by JinkO) are connected to JinkO connectors (or parts).

备注：连接器安装过程中操作困难或无法操作，请参照如下联络方式询问、查询：

Notes: If you have any questions during installation, please feel free to contact us as follows:

江西晶科光伏材料有限公司

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技术联系方式

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6. 变更清单 Change List

版本号 Ver.	修订内容 Rev. content	修订日期 Rev. date
A0	初版发行 First edition	2023.08.01
A1	修改目录字体格式 Modify the font format of the catalog	2023.09.15
A2	增加变更清单 Add change list	2024.10.10
A3	修正部分英文描述 Modified some English description	2025.05.28
A4	补充安装提示内容 Add installation instructions	2025.09.01