

# JinkoSolar Photovoltaic Module



## Connector Installation Manual

*Solar*  
**Jinko**  
*Building Your Trust in Solar*

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## **Safety Instructions:**

- The products must be assembled only by those qualified people who have been trained by specialists and know the relative security application specification. Jinko PVM declines to undertake any responsibility which are results from ignoring these warnings.
- Connecting & Disconnecting connectors are prohibited when under load or electrified.
- The waterproofing of the product is in accordance with local standards, however, the product is not designed for long-term under water use.
- If the connectors are dirty (dust or grease) and cannot be cleaned completely before installation, you cannot continue the installing.
- The module leads should be installed where the connectors are not under continuous mechanical stress and the cables should be fixed with nylon cable ties.

## Tools required:

1. Wire stripper plier (12AWG or 10AWG are applicable).  
There is one wire stripper plier per tool set.

Function: Cutting the wire insulation (exposing copper wire).



2. Crimp Tool (12AWG or 10AWG are applicable).  
There is one crimp tool per tool set.

Function: The connection and crimp between the copper wire and metal terminals are all made by the crimp tool.



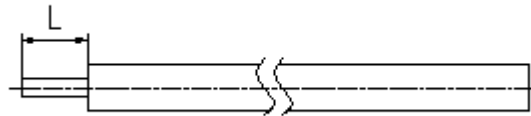
3. Assembly Tool: There are two assembly tools in a tool set.

Function: Used to disassemble / assemble the connector and disconnect male / female connectors



## Cable Preparation:

- Do not use untreated cables. Tinned wires are recommended.
- Jinko PV-JK03M connectors are compatible with the following type of cables:  
12AWG or 10AWG.
- When stripping the cable insulation “L”, 7mm to 9mm in length should be removed on the end of cable.
- Do not cut the copper wire.



## Wire stripping operation:

1. Fix the wire stripper cutting length to 7mm to 9mm (the length of L should be fixed). (fig. 1)
2. Take the cable in one hand and the wire stripper in the other hand.
3. Insert cable until end touches fixed block. (fig. 2)
4. Use one hand to squeeze the handle of the wire strippers, then cut & remove the cable insulation. (fig. 3)



*Figure 1*



*Figure 2*



*Figure 3*



## Crimping:

1. Open the crimp tool and press the clip. Insert female (male) pin into appropriate groove until fully seated. Arrange contact pin so opening faces upward. (fig. 4 & 5)
2. Squeeze the crimp tool gradually until the contact pin touches the lower half of the crimping mold. (fig. 6)

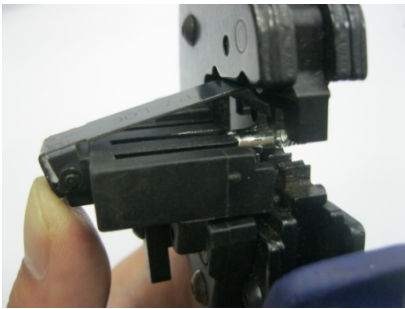


Figure 4



Figure 5

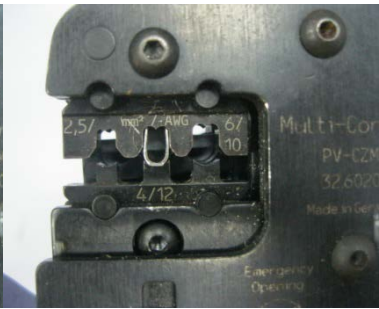


Figure 6

3. Inset stripped wire into (male / female) pin until the cable insulation touches the opening of the pin. Press crimp tool completely. (fig. 7)
4. Verify crimp is complete and not loose. (fig. 8)



Figure 7

Figure 8

## Pin Installation

1. Insert crimped pin (male/female) into corresponding connector (positive / negative). (fig. 9). Installation is complete with an audible click sound. (fig. 10)
2. To lock the screw nut, use the assembly tool open-end wrench to fix the nut, and another assembly tool cut-out to encompass the connector. (fig. 11)



*Figure 9*

*Figure 9*

*Figure 10*

3. Spin clockwise to fully tighten nut. Clearance between the nut and the connector should be 1.0 to 1.7mm. (fig. 12)
4. Insert the male connector into the female connector once the nut is fully tightened. Connection of male and female connectors is complete when an audible click is heard. (fig. 13 – 14)



*Figure 11*

*Figure 12*

*Figure 13*

## Disconnecting Connector:

1. Using the assembly tool, insert the forks into the buckle of the connector (fig. 15)
2. Pull the connector by the left and right hand respectively. The connectors can now be separated. (fig. 16 – 17)



*Figure 14*

*Figure 15*

*Figure 16*

## Technical Data:

<b>Electrical Characteristics</b>	
Rated Voltage	DC 1500V (UL/IEC)
Rated Current	DC 20A
Contact Resistance	≤0.5mΩ
Protection Class	Class II

<b>Mechanical Characteristics</b>	
Dimensions	66.1mm*19.8mm
Protection Degree	IP67, mated
Contact Material	Copper, tin plated
Insulation Material	PPE PV40Z

<b>Other Characteristics</b>	
Ambient Temperature	-40°C to +85°C
Upper Limit Temp	100°C
Fire Resistance	UL94 5VA
Reference Standard	UL6703

## **Disclaimer of Liability**

Because the use of the manual and the conditions or methods of installation, operation, use and maintenance of photovoltaic (pv) product are beyond Jinko's control, Jinko does not accept responsibility and expressly disclaims liability for loss, damage, or expense arising out of or in any way connected with such installation, operation, use or maintenance.

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**Note**

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