

PV-HCC40 – 规格说明书

PV CONNECTOR INSTRUCTION

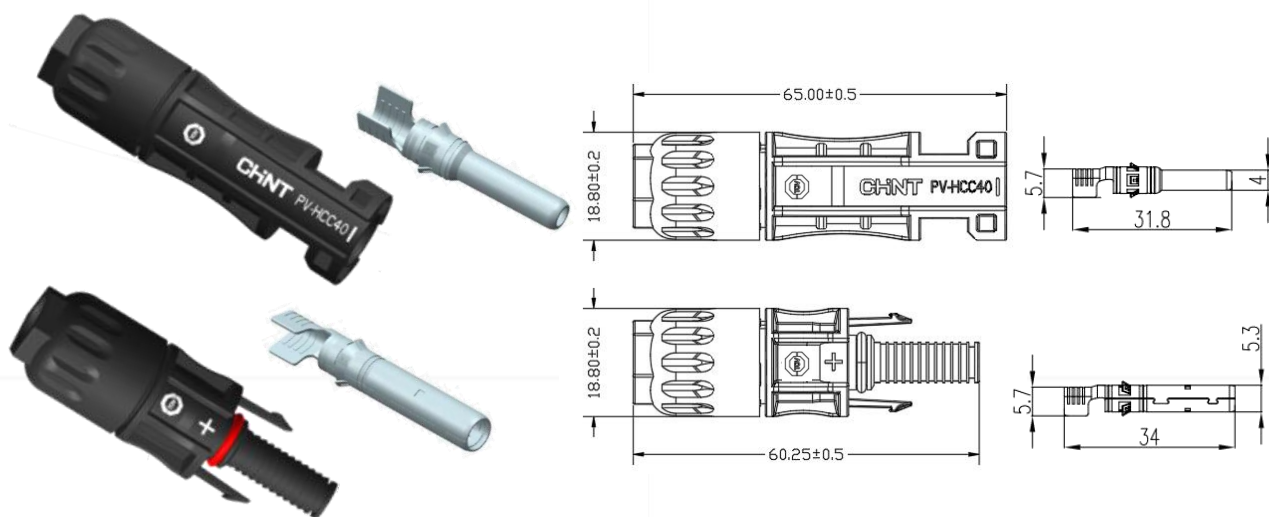


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外形尺寸Overall Dimensions



技术参数Technical Parameters

产品名称/Name:	PV-HCC40
额定电压/Rated voltage:	1500V
额定电流/Rated current:	45A
线径规格/Cable specifications:	4mm ²
接触电阻/Contact Resistions:	≤0.35mΩ
防护等级/Protection Degree:	IP65/IP68(1m, 1h)
保护等级/Protection class:	Class II
温度范围/Temperature range:	-40℃ ~ +85℃
电气连接/Electricall connection:	铆接Crimping

产品介绍 Technical Data

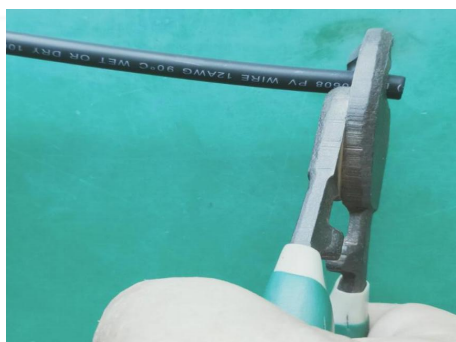
1. 安全性：环槽结构，密封件尾翼结构，内部护套结构，均能增强绝缘效果，使连接器电性能更加安全可靠。
2. 兼容性：可兼容MC4类连接器（与其他连接器连接需工厂端验证）。
3. 对插便利性：能实现快速对插，且满足与常规组件连接器的互插
4. 应用场景广：全场景光伏组件系统应用。
5. 具备传统连接器优点：具备大电流、高密封性等特点。



操作方法 Operation Method

1.在线缆末端用剥线钳剥皮，剥皮长度6.0-7.5mm(如图)。注意：剥皮时不能有剪断铜丝现象,剥皮长度符合要求。

Strip the end of the cable with wire stripper, the stripping length is 6.0-7.5mm (as shown in the figure).Note: the copper wire can not be cut when peeling, and the peeling length must meet the requirements.



2.打开压线钳手柄，把连接器端子放入到压线钳对应规格槽并塞入到位（端子铆线杯口需向上，如图）。

Open the handle of the crimper, put the connector terminal into the corresponding specification slot of the crimper and plug it in place (the rivet cup of the terminal shall be upward, as shown in the figure)



操作方法 Operation Method

3.把剥好皮的线缆芯线端放入端子杯口内（线皮贴近端子杯口平面），按下压线钳手柄压紧端子。

Put the stripped cable core end into the terminal cup (the wire cup is closed to the plane of the terminal cup), and press the handle of the crimper to compress the terminal.



4.松开压线钳手柄取出线缆,目视检查端子是否有未压牢固、压偏、漏铜丝等现象.

Loosen the handle of the crimper and take out the cable, and visually check whether the terminal is not firmly pressed, biased, copper wire leakage, etc.



操作方法 Operation Method

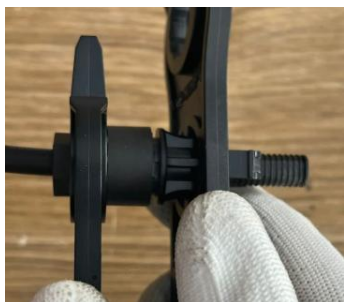
5.把压好端子的线缆对准连接器后端孔内插入到位，听到“咔哒”声则插针插入到位，然后轻轻反向拉动线缆，插针不脱出为装配到位。

Insert the cable with the terminal pressed in place into the rear hole of the connector, When you hear a "click" sound, insert the pin into place, then gently pull the cable in the opposite direction. If the pin does not come out, it means the assembly is in place.



6.把专用扳手中间卡口卡入连接器前端，另一扳手卡入螺母花纹端顺时针转动扳手锁紧螺母，螺母留1.1mm缝隙。

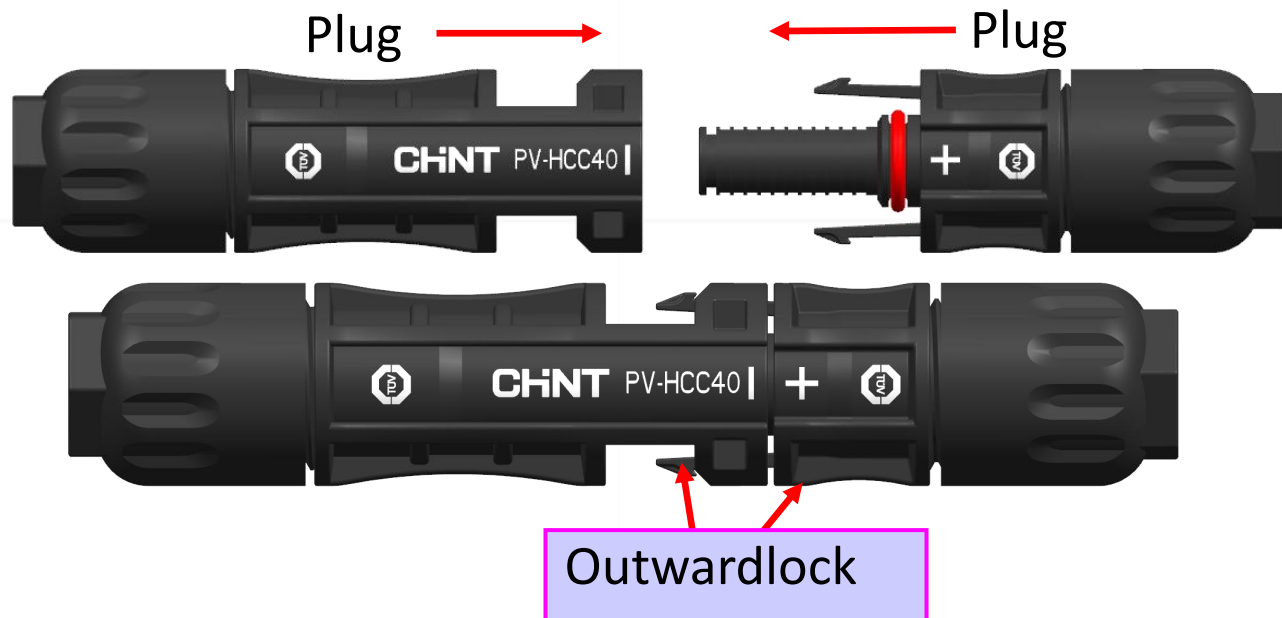
Insert the middle bayonet of the dedicated wrench into the front end of the connector, and insert the other wrench into the nut pattern end. Rotate the wrench clockwise to lock the nut, leaving a 1.1mm gap in the nut.



操作方法 Operation Method

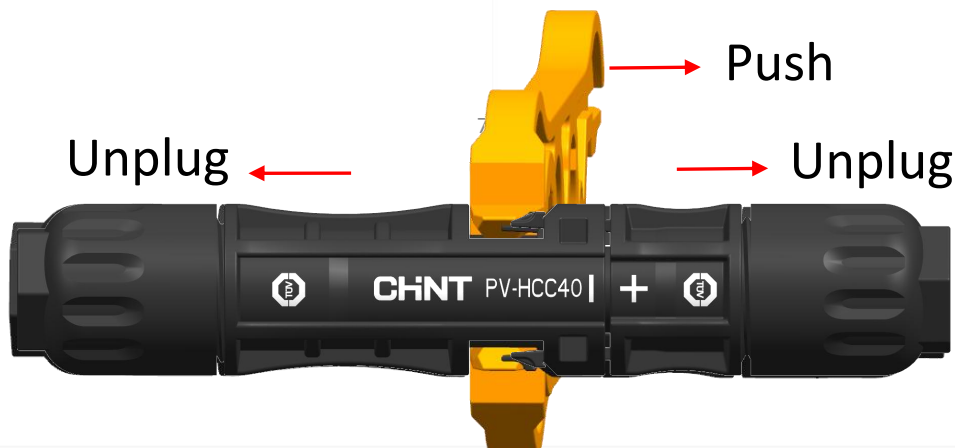
7. 正极连接器与负极连接器对插 (如图) .

Plug the positive connector and the negative connector into each other (as shown in the figure)



8. 把专用工具/PV-HCC40专用工具插入连接器扣位处往后推，同时正负连接器往相反方向拉就可打开连接器。

Insert the MC special tool (T02) into the connector button and push back, while the positive and negative connectors can be pulled in the opposite direction to open the connector.

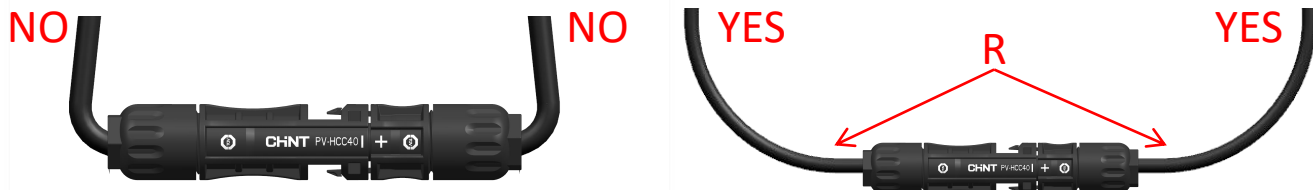


注意事项

1. 禁止强酸、强碱物质接触连接器，如汽油、清洗润滑剂、电子复活剂等含有烷烃物质的溶剂和工业污染排放的特殊气体等。
2. 连接器禁止与脱脲型硅胶接触，若与脱脲型硅胶共处同一环境，需胶完全固化后进行包装存储；连接器线缆禁止挂、拉重物。
3. 产品装卸及运输过程中注意轻拿轻放，不要受外力重压，以免造成损坏。
4. 工作人员应配有适当的静电防护措施。
5. 如果不是维护需要，请不要频繁进行连接系统的开合或插拔。
6. 请不要在负载下断开连接（见下图连接器警示语）。
7. 户外维护应由专业人员进行。
8. 电气安装说明应包括根据美国国家电气规范ANSI/NFPA 70使用的接线方法的详细描述。
9. 接线盒的出线处不能折弯或受挤压，最小的折弯半径R必须保持 ≥ 5 倍电线直径。现场安装线缆及组件时,必须避免导体或连接器处于绷紧状态（见下图示意图）。
10. 不允许将连接器与市面中其他连接器或规格不匹配的连接进行互插。



折弯半径 $R \geq 5$ 倍线缆直径
Radius (R) > 5 x cable Ø



Matters Needing Attention

1. Contact of strong acid or strong base substances with connectors is prohibited, such as solvents containing alkane substances like gasoline, cleaning lubricants, electronic revitalizers, etc., and special gases emitted from industrial pollution, etc.
2. Connectors are prohibited from contacting deoxime-type silicone. If they are in the same environment as deoxime-type silicone, packaging and storage should be carried out after the silicone has fully cured; connector cables are prohibited from hanging or pulling heavy objects.
3. During the loading and unloading and transportation of the product, please handle it with care and do not be subject to external pressure to avoid damage.
4. The staff should be equipped with appropriate electrostatic protection measures.
5. If it is not necessary for maintenance, please do not frequently open and close or plug and unplug the connection system.
6. Please do not disconnect the connection under load (See previous page connector warning).
7. Outdoor maintenance should be carried out by professional personnel.
8. Electrical installation instructions should include a detailed description of the wiring method used in accordance with US National Electrical Code ANSI/NFPA 70.
9. The outlet of the junction box cannot be bent or extruded. The minimum bending radius R must be maintained at ≥ 5 times the diameter of the wire. When installing cables and components on site, it is necessary to avoid the conductor or connector being in a tight state(See previous page diagram).
10. It is not allowed to interplug the connector with other connectors or connectors that do not match the specifications in the market.