

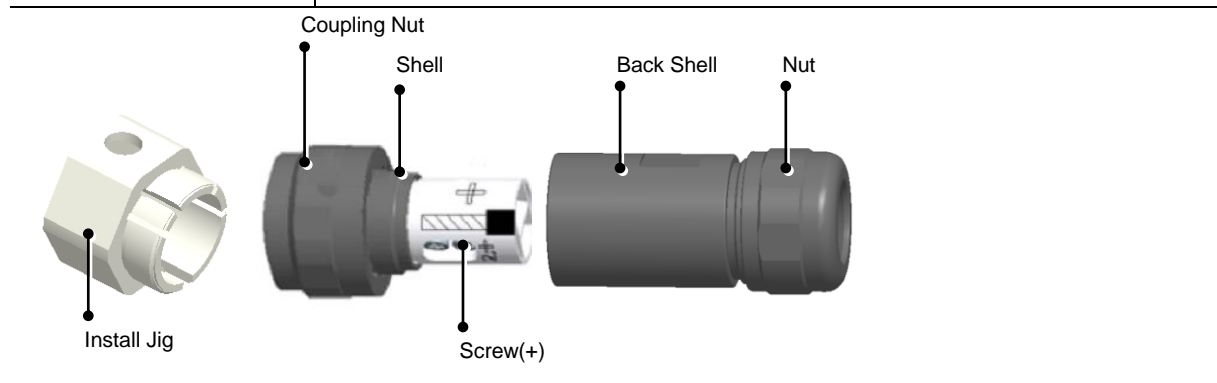
## Power Cable Connection

▶ To assemble Power Connector

- 1 Make sure that you have the following items:

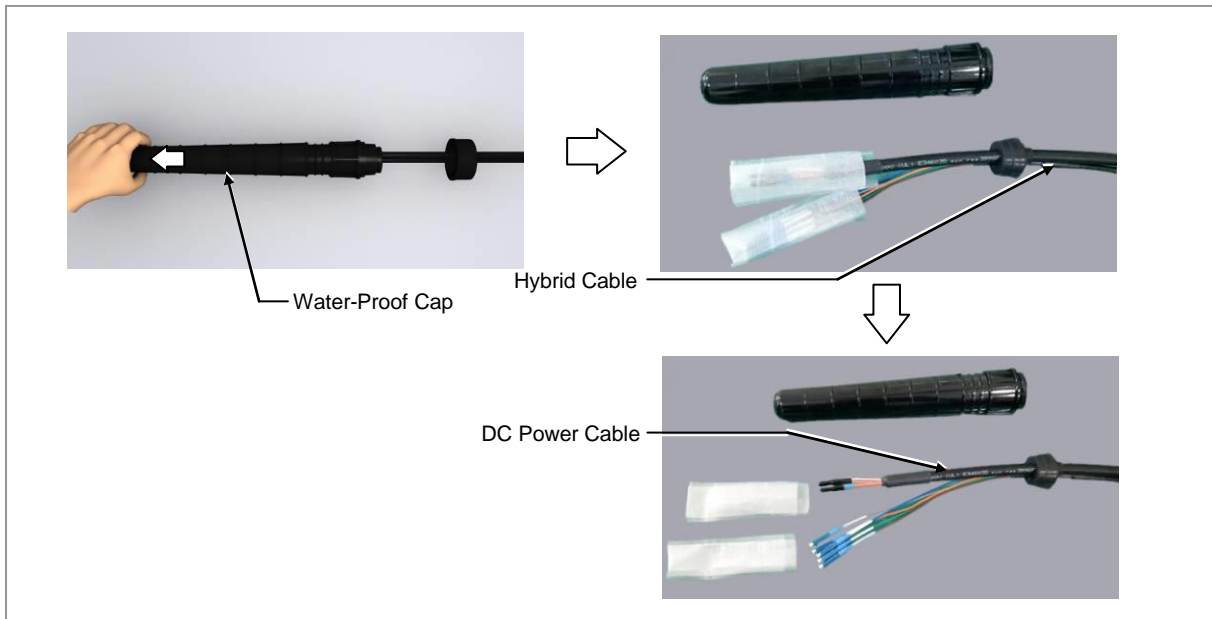
**Table 19. Parts and Tools for Power Connector Assembly**

Category	Description
Connector	JONHON, CT48C-2T-07
Cable	AWG 8 x 2C
Material	Cable Tie
Recommended Torque Value	- Screw : 13 lbf.in - Back shell / Nut : 18.23 lbf.in
Working Tools	Cable Cutter, Wire Stripper, Nipper, Torque Driver(+, No.1), Adjustable Head:0.31~1.26 in.( 8~32mm)), Adjustable Wrench: 10~50 lbf.in., Multi Tester



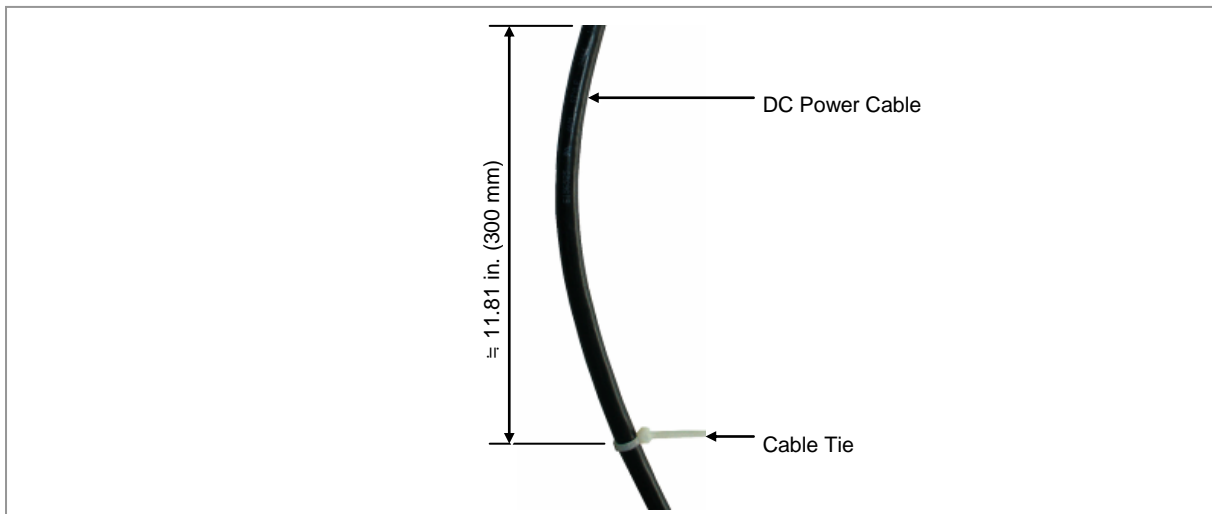
- 2 Separate the waterproof cap from the hybrid cable.

Figure 36. Power Connector Assembly (1)



- 3 Tie the cable tie at 11.81 in. (300 mm) from the end of the power cable.

Figure 37. Power Connector Assembly (2)



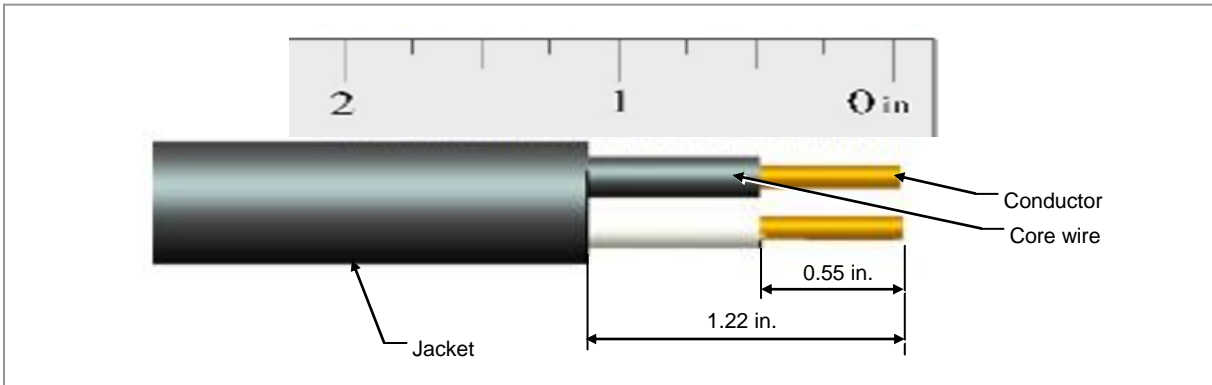
- 4 Insert the back shell of the power connector into the power cable.

Figure 38. Power Connector Assembly (3)




- 5 Strip the jacket of the power cable and the sheath of the core wire as shown in the following figure.

Figure 39. Power Connector Assembly (4)

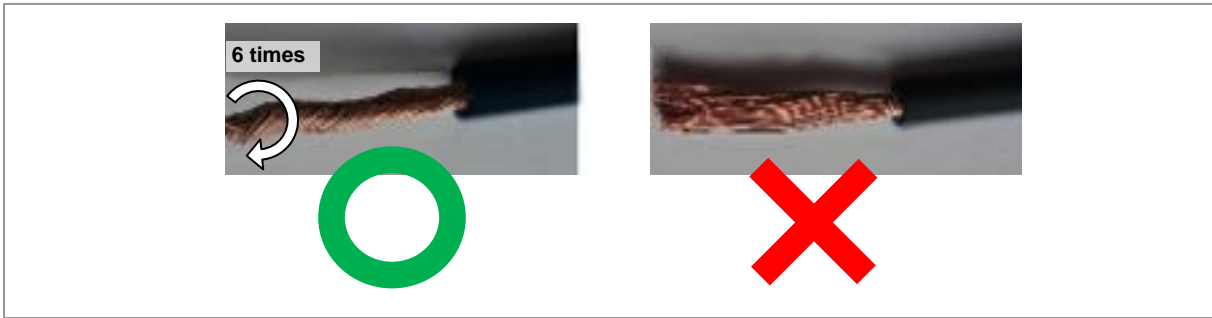


**!** Be careful when stripping the cable, Please don't damage the core wire and the conductor.

 The color of the core wire can be changed according to the specification of the cable used.

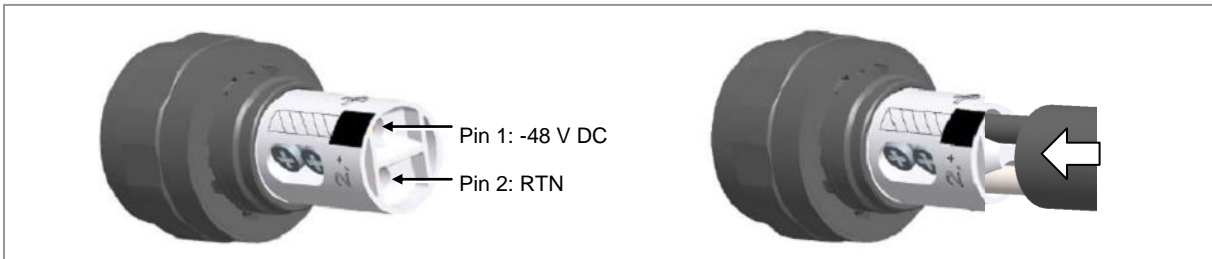
- 6 Hold the conductor of the cable by hand and twist it about 6 turns.

Figure 40. Power Connector Assembly (5)



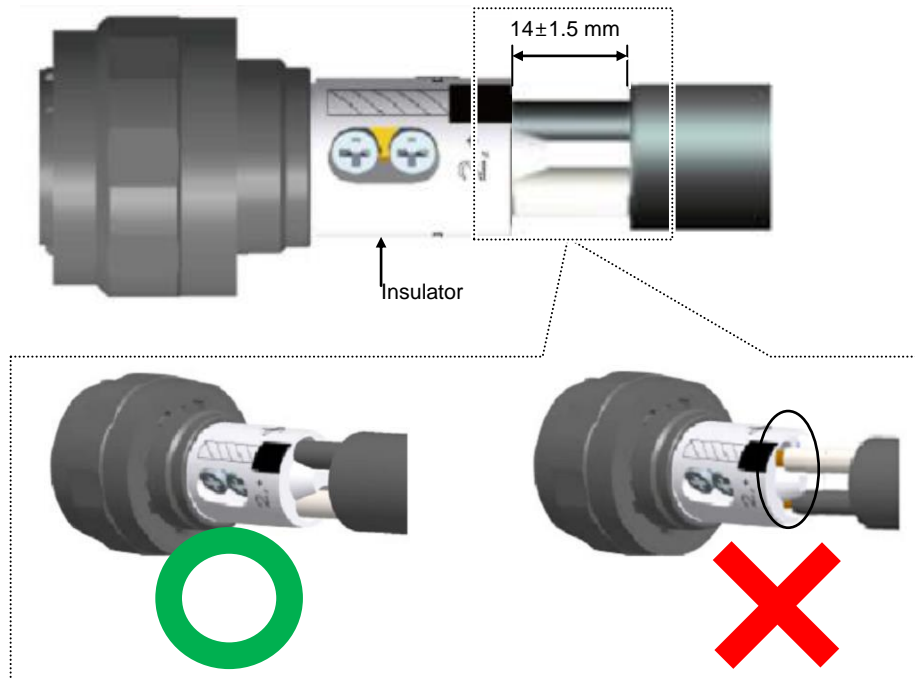
- 7 Check the color of the core wire and push it into the holes of Pin 1 and Pin 2.

Figure 41. Power Connector Assembly (6)



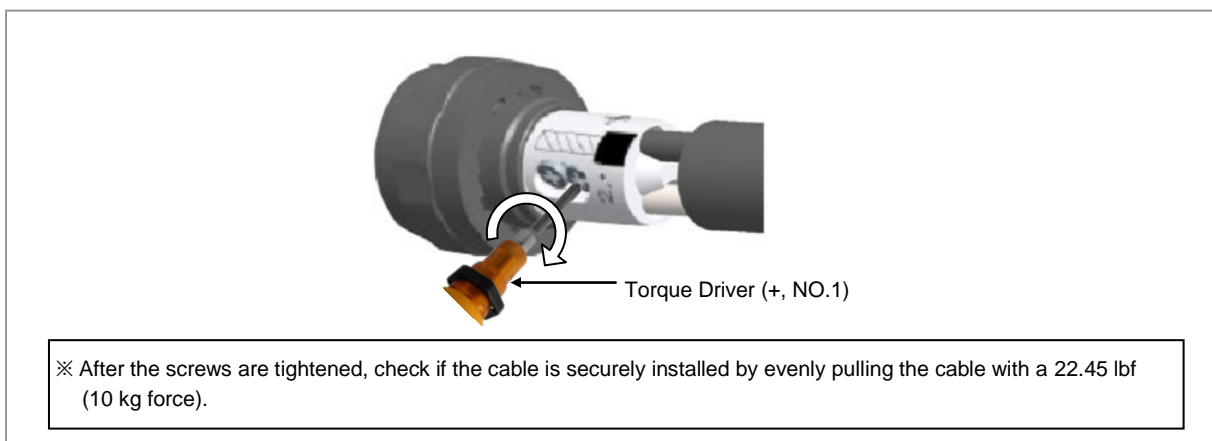


Check the dimension in the below picture. The conductor can not be seen from the end of insulator.



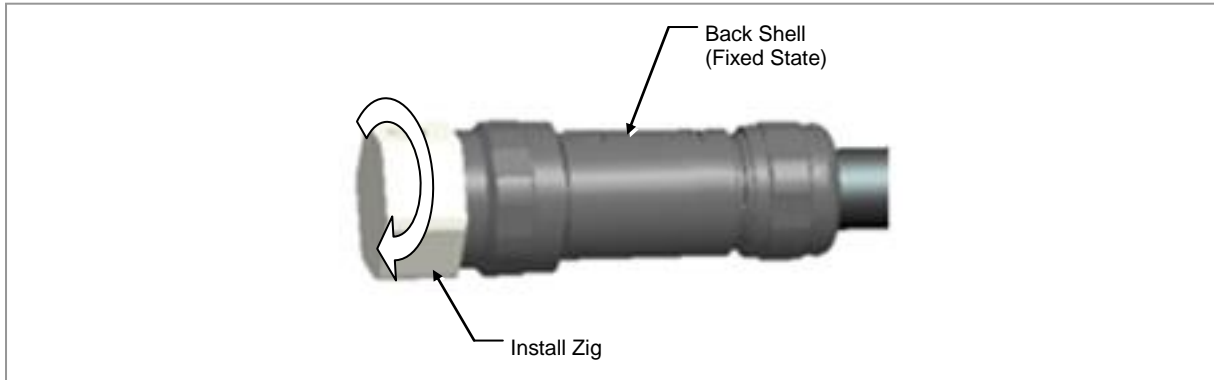
- 8 Fix the two screws of pin 1 and pin 2, respectively with the torque driver (+, No.1).


Figure 42. Power Connector Assembly (7)




- 9 Fix the back shell not to rotate, rotate install zig and fix it with a torque wrench.

Figure 43. Power Connector Assembly (8)



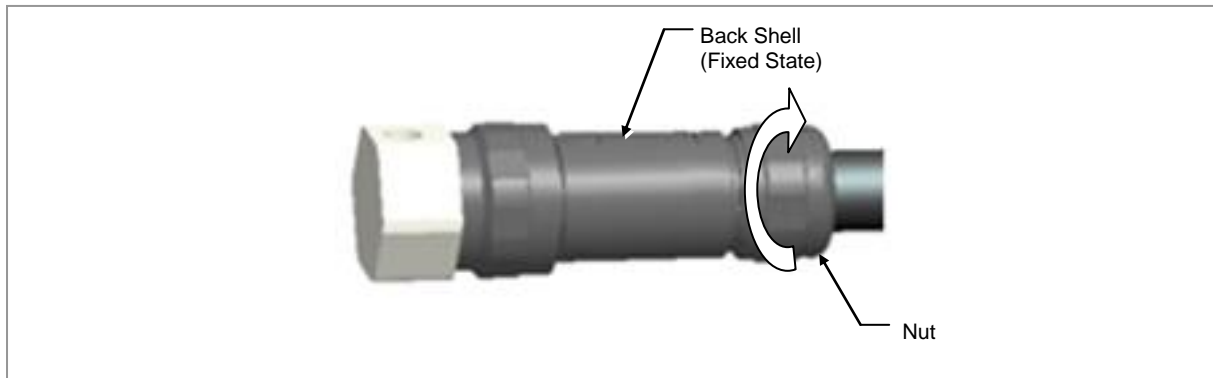
 Before tightened the back shell, the cable can't be tightened by the nut.

 The torque wrench used to assemble the power connector should be a product with a rubber tube on the spanner head.



**10** Fix the back shell not to rotate, rotate nut and fix it with a torque wrench.

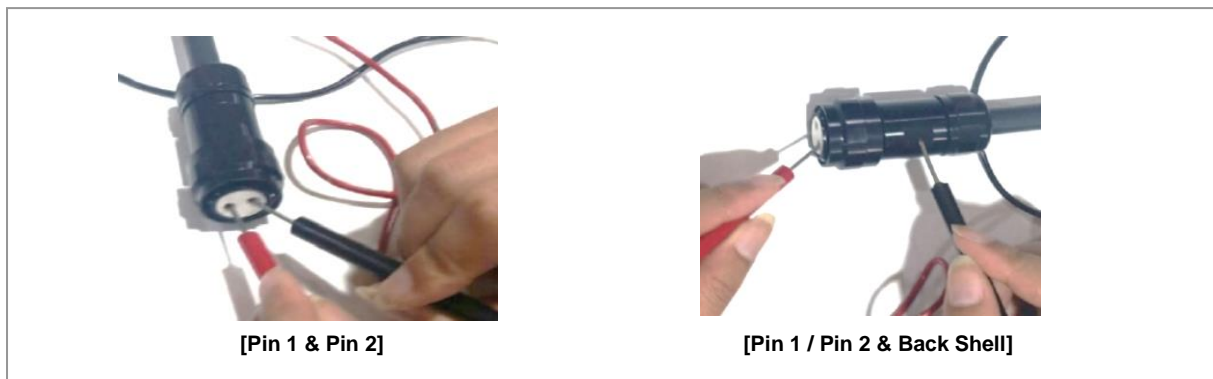
*Figure 44. Power Connector Assembly (9)*



**11** Check electrical isolation with a Multi tester.

- Pin 1 & Pin 2
- Pin 1/Pin 2 & Back shell

*Figure 45. Power Connector Assembly (10)*



**12** After completing the assembly of the power connector, remove the cable tie from the cable.

▶ To connect Power cable

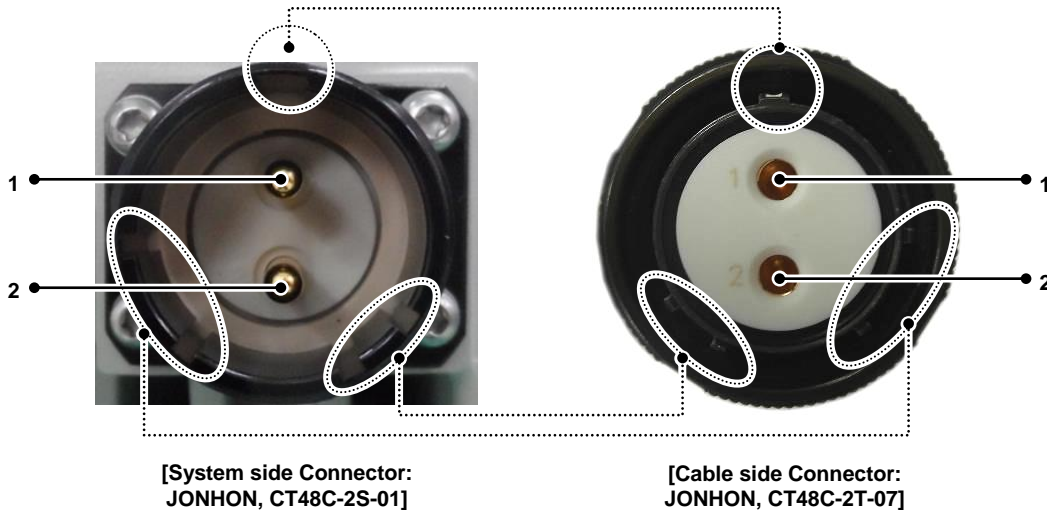
1 Make sure that you have the following items:

**Table 20. Parts and Tools for Power Cable Connection**

Category	Description		
Installation Section	RRH Power Input Port~Rectifier		
Cable	AWG8 × 2C		
Connector	JONHON, CT48C-2T-07	1	-48 V DC
		2	RTN

**Table 21. Power Cable/Connector Pin Map**

Power Connector Pin No.	Description	Color
1	-48 V DC	If the color coding is needed for the cable, comply with the specifications which have been agreed with the service provider.
2	RTN	

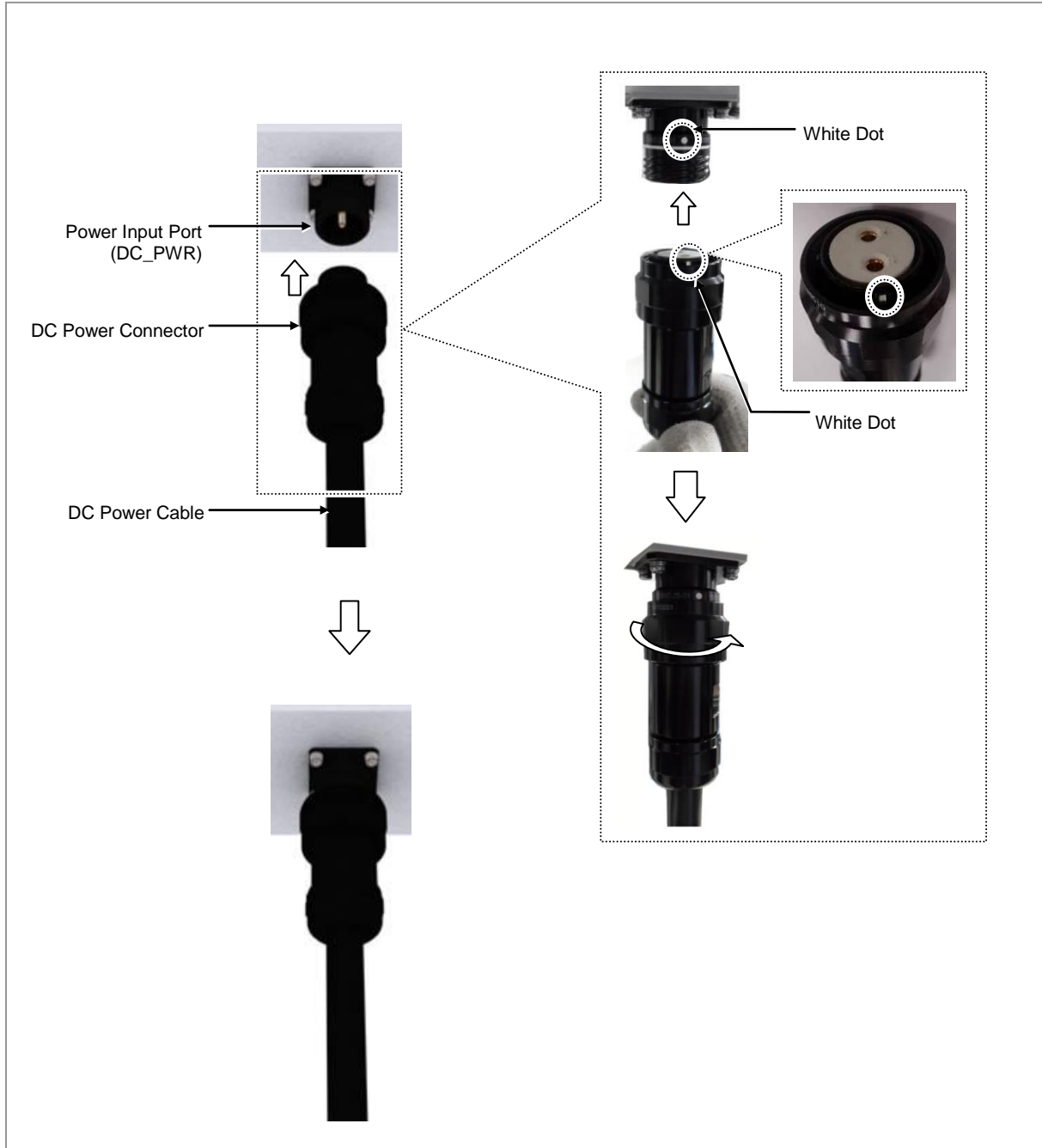


- ⚠** To prevent foreign substances, air and moisture from entering the cable inlet (including cable gland and conduit), finish it as follows:
- Unused inlet  
Use the hole finishing materials including waterproof cap and rubber packing.
  - Cable-installed inlet  
After cable installation, block any space in the inlet with tape, compressed sponge, rubber packing and silicon.



- 2 Align the ○ marks of cable side connector and system side connector, and assemble the connectors.
- 3 Fasten the nut of cable side connector by turning it clockwise until the clicking sound is not heard.

Figure 46. Hybrid(Power) Cable Connection (1)



- 4 When the nut is fastened tight, the white line on the receptacle connector should be invisible (or hidden).

Figure 47. Hybrid(Power) Cable Connection (2)

