



PV Connector

Solar Cables | Photovoltaic



Product

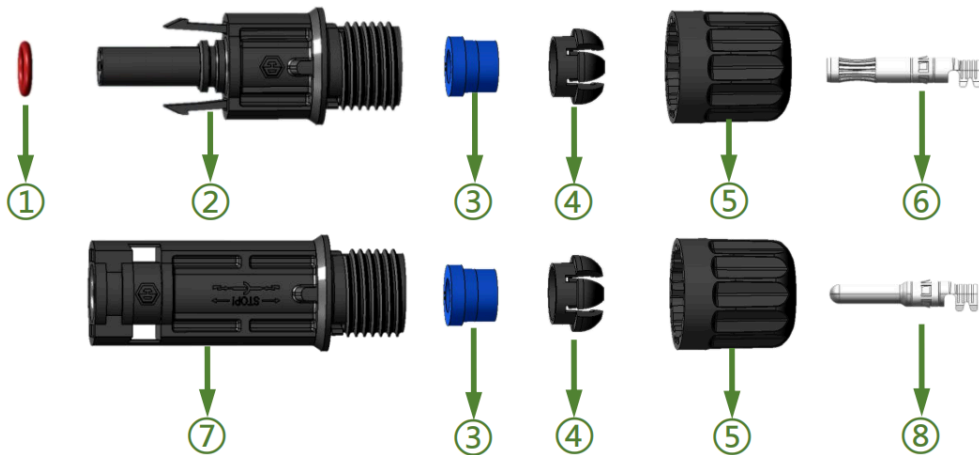


Product Specifications

Certification	TUV SUD	TUV	ETL
Certificate Number	B 0904270005	R 50567571	5023626
Rated Current	4mm ² --41A 6mm ² --48A	4mm ² --42A	12AWG--35A
Rated Voltage	TUV 1500V DC UL 1500V DC		
Protection Degree	IP68 (1m,1h)		
Safety Class	Class A		
Cable Specifications	4.0mm ² OD 5.7-6.1 mm, Strands 56/0.285(TUV) 12AWG OD 6.3±0.1 mm, Strands 56/0.285(UL)		
Ambient Temperature	-40°C~ +85°C		
Contact Resistance	≤0.3mΩ		
Insulation Material	PC/PPE/PA		
Flame Class	UL94-V0		
Connection Method	Pressure welding		
Contact Material	Copper tin plating		
Waterproof Structure	Seal ring		

Product Overview

1. The installation method of this type is easy, convenient and safe.
2. It applies unique rear-insert way to assemble. This product is applicable to cables with different diameters.
3. The innovative design of positive and negative terminal structure makes the contact resistance of contact area less than 0.5mΩ. The structure of conducting ring is made of imported copper through stamping process.
4. It is able to carry very high current and withstand high voltage.
5. Strong self-locking function meets the requirement of pull-out force.
6. It has strong shock resistance function.
7. With excellent sealing design, the degree of dustproof and waterproof can reach IP68.
8. The superior resin material we used not only meet fireproofing grade of UL94-V0, it also added anti-aging and ultraviolet resistance function. Thus the product can be used outdoor for a long time.






1	O-Ring	5	Gland Nut
2	Positive Connector	6	Female Terminal
3	T-Ring	7	Negative Connector
4	Cable Bayonet	8	Male Terminal

Installation Instructions

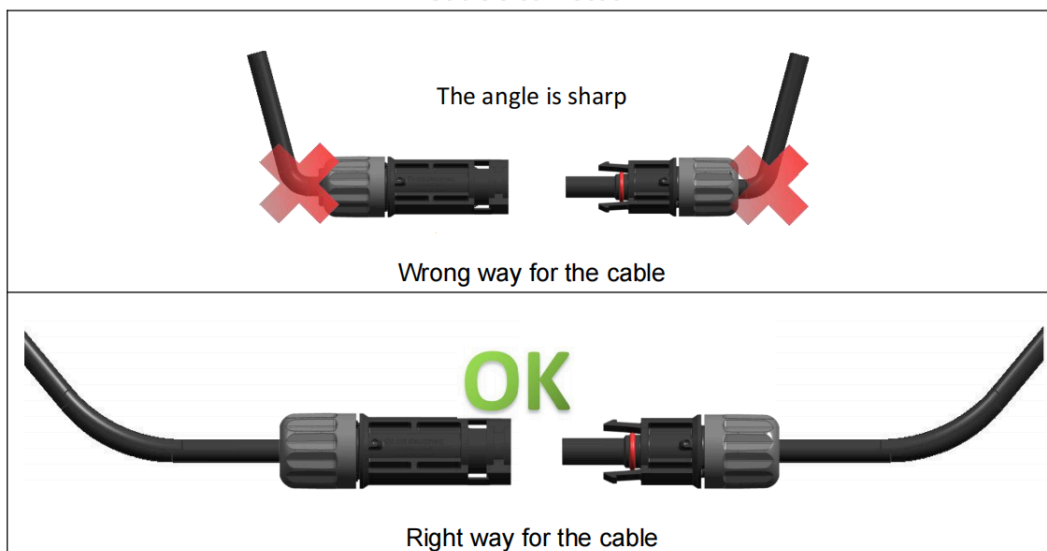
1. During your self- installation, if the used part and tool are not ruled by our or if you ignore preparation and operation, we won't insure the safety compatible of the product technology your self-installation.
2. For protecting against electric shock, please cut off the power when installing PV connector.
3. The final products must be supplied with the function electric shock proof.
4. In the case of load, the connector is not allowed to disconnect. In the case of charged is not allowed to pull plug.
5. H07RN cables without tinned are not recommended. Cause the contact resistance of crimping place will probably exceed the permitted value since the cooper wires are oxidized.
6. TL-CABLE01 are IP67 rated, and they can be positioned for half an hour under 1MT of water, But they can't be put under water for long time.
7. Some chemicals should avoid contacting with the connector body, refer to table 1

Assembly Steps

	<ul style="list-style-type: none">■ Trip the insulating layer of cable. $L=7\pm 0.3\text{mm}$. Be attention and not to cut off the wire core.■ Note: Please keep the cable cross section flat when cutting the cable.
	<ul style="list-style-type: none">■ Put the stripped cable into the terminal hole and ensure that all cores are in the terminal hole.■ Do not touch the positioning angle of the terminal■ Push the riveted pin into the insulator until they engage. Pull lightly on the lead to check that the metal part has engaged. 

	<p>■ Install the cable gland. First screw it by hands, then lock tightly by plastic spanner or plastic spanner and ring spanner. The front-end of connector need to be fixed during Production. Unscrew the rear cover, recommend input torque force 3.0N.m.</p>
	<p>■ Insert male connector and female connector until they engaged, which can verify whether the connector is in place.</p>
	<p>Note: Plug parts of the cable coupler together until they click in place. When connection is completed, the cable can be pulled to the left and right direction to confirm whether the connector is assembled well. Pull Out Process: ■ The connectors can be unlocked by hands.</p>

Cable's connection



The cable of connector should not be bend too much, the minimum bending radius should be not more the four times of cable O.D generally . For accurate information , refer to cable manufacture's specification.

Global Leader of PV Connectors Manufacturer



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