

Betteri BC01 3 Pin AC Connector for PV System Instruction Manual

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Introduction

Dear Customer, Thank you for choosing our product "Multi-pole AC Connectors For PV system", which are referred to as "Connectors" hereinafter. Please read this instruction book carefully in order to use the product correctly, quickly and safely.

Application & Structure

The connectors are specialized for the connection of inverter equipment in terrestrial PV systems

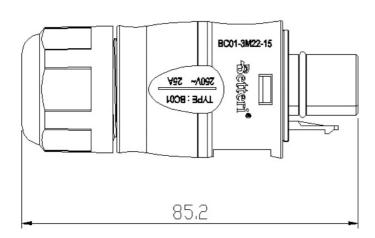
The connection of pin and wire is screw type which is easy for field installation and the connection of the male and the female connector is snap-fit type

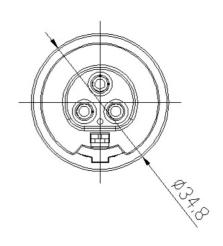
Easy operation, reliable performance on mechanical and electrical properties;

The connector may be used in other areas and industries; we will not assume any unstated quality responsibility if the product is used in other fields and industries.

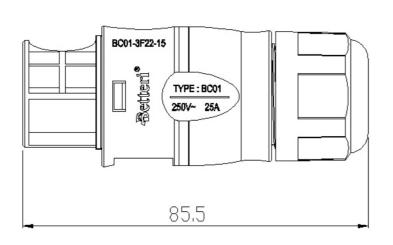
Product Outline Size

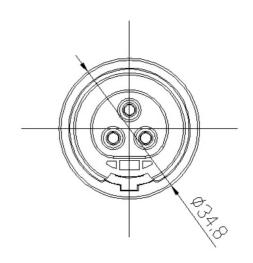
• Outline of male cable connector (2+PE)





• Outline of female cable connector (2+PE)





Type

BC01(CC) Connector type:BC01(CC) Male cable connector type

TUV, CSA: 250V 25A	BC01-3M22-15
CSA: 350V 25A	BC01-3M32-15



Female cable connector type

TUV, CSA: 250V 25A	BC01-3F22-15
CSA: 350V 25A	BC01-3F32-15



Main Technical Features

Item	Parameter	Item	Parameter
Applicable environment temperat ure	-40°C +85°C	Over-voltage category	III
Relative humidity	≤95%	Wiring Connection	Screw type
electrode number	2P+PE	Insulation resistance	≥100MΩ
Rated voltage	TUV: 250V AC CSA: 350V AC	Rated impulse withstand voltage	4000V AC
Rated current	25A(4mm²)	Degree of protection	IP68 1.5m,24h
Material of pin	Copper alloy &silver plated	Insertion and withdraw fo rce(unlocked)	10 50N
Contact resistance	≤1mΩ	Applicable wire gauge	2.5/4.0mm2
Pollution degree	2	Outer cable diameter	10 13mm
Enclosure flame class	UL94-V0	Standards	UL6703A EN 61535 PPP 59015A:2013

Safety Precautions

Please be careful during loading, unloading and transportation. Avoid outer heavy pressure to protect connectors If the internal parts do not match the instructions after opening the package, please stop using it immediately and contact sales or our company directly

Please ensure the inverter system is not under working conditions firstly when installing connectors, The human body cannot simultaneously contact the connector's positive and negative pole , in order to avoid electric shock accidents

The operator who installs or maintains the product shall be trained and have related electrical installation and maintenance skill.

For Assembly

Tools

· Wire striper



• Flat screwdriver and #1 cross screwdriver





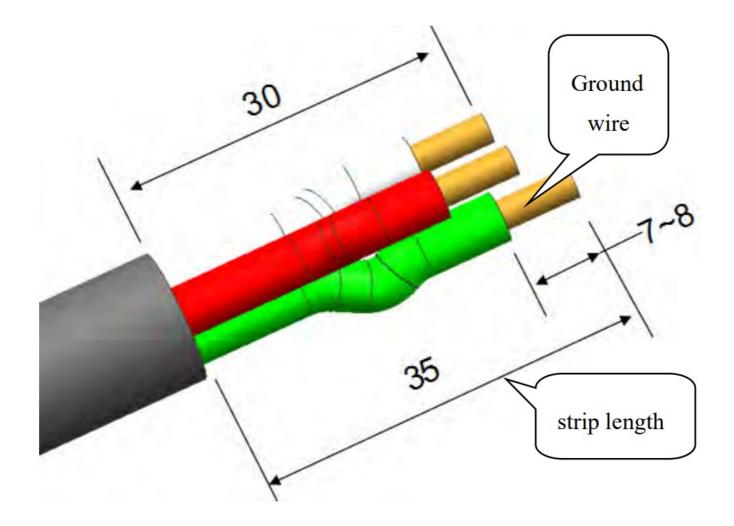
• Monkey wrench wider than 3cm and 30# solid wrench





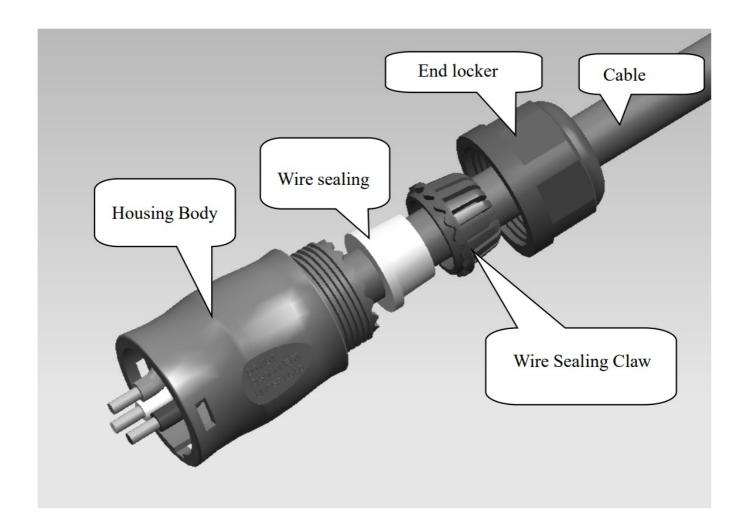
Strip cables

Only multiple strands of copper wire can be used. Please cut and strip the wire according to the requirements, and the ground wire needs to be 5mm longer than live and naught wire, and the applicable stripping length is $7 \sim 8$ mm.



Instruction of cable connector assembly

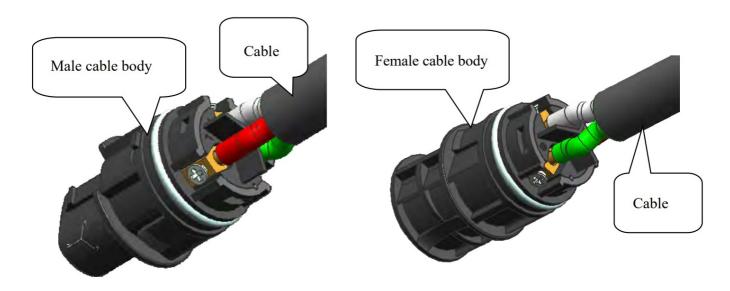
Screwing off the tail parts (End Locker, Wire Sealing Claw and Wire Sealing) from male or female cable connector and then pulling the wire which was cut and stripped through them in turn.



Crimp the wire

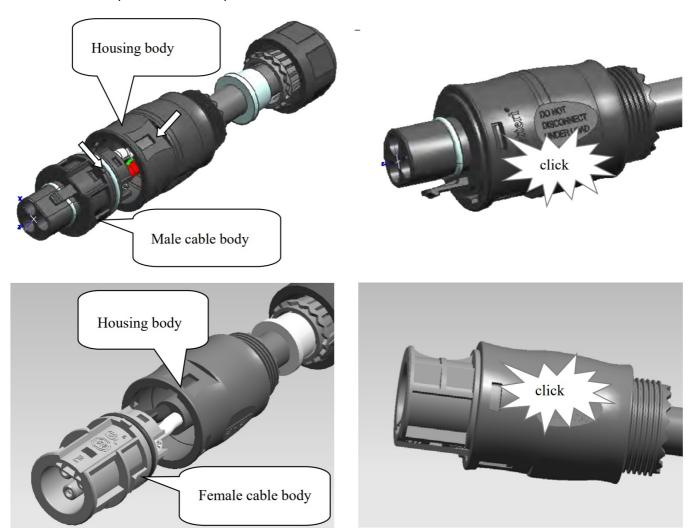
Inserting the stripped wires correctly into the corresponding pin holes according to the identification and then tightening all screws firmly, Screw twisting torque 0.4±0.1N·m. after it , giving a reverse pull force lightly (about 10N by manual to test crimping result. Please pay attention to avoiding damage of pins and pin-holder. After crimping, The tensile strength shall meet the requirements listed in the following table

Conductor cross-section area (mm2)	Required tensile strength (N)
2.5	50
4.0	60

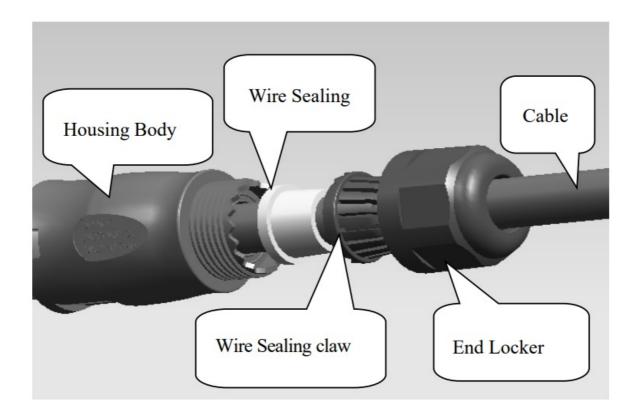


Install male & female cable body to plastic housing

Push the male or female cable body into housing body correctly according to the position of the clamping groove, and will hear a crisp "click" sound in place.



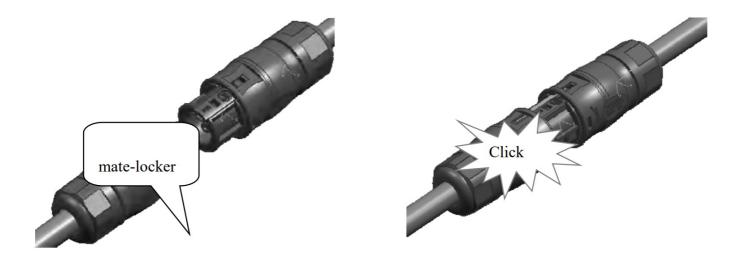
Push the sealing body and sealing craw into the housing body, and then tighten the end locker, torque 4.0±0.5N·m.



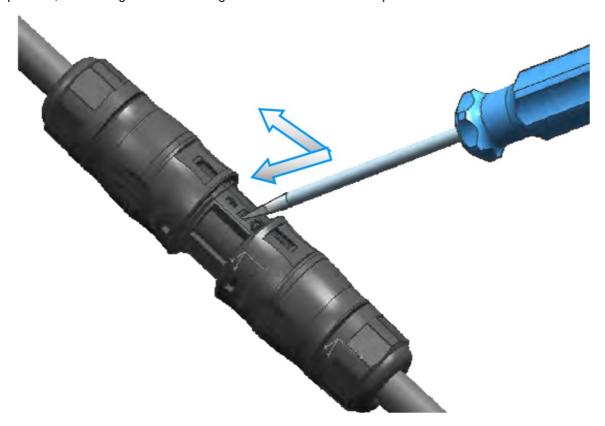


Instructions of Operation

Please switch off the system power and ensure the male and female connector are of the same type before using When mating connectors, align mate-locker on the male connector with grooves on the female connector, and insert gradually .Connected in place, there will be a sound of "click";

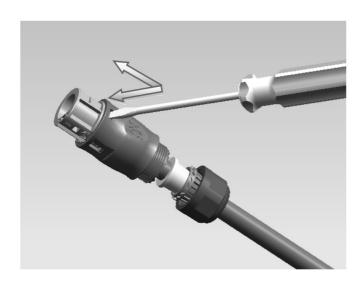


If the connectors are separated, choose a corresponding flat screwdriver to push mate-locker step slightly out of position, and then give a force along the axial direction until separation.



If the connector to be disassembly for rewire, please according to the following steps: Loosen tail parts (End Locker, Wire Sealing Claw and Wire Sealing body);

Use a suitable flat screwdriver to press the elastic tongue on the male or female cable body inward and push forward slightly, and when the tongue comes off a little, use the same method to the tongue on other side. Give a force along the axial direction until separation.





Maintenance

The user should do maintenance work according to the different operating environments and frequencies. If discovering any damage of connector systems, please stop using and change it immediately. Please do not separate and mate the connector system frequently if not for repairing or maintenance reason which may reduce the waterproof performance of the system.

Statement

If this instruction is inconsistent with the received product, the received product shall prevail. One instruction book will come with one standard box. Please contact us or view our company's website for downloading if you need more copies. All technical data is for reference only when using the product. Any commercial purpose application is forbidden. Wuxi Betteri Electronic technology Co., Ltd. owns the copyright and the right of final interpretation. Wuxi Betteri Electronic technology Co., Ltd. is entitled to conduct any further modification to the print error, technical improvement and innovation without prior notice, and all the translations shall be subject to Chinese Edition.

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Documents / Resources



Betteri BC01 3 Pin AC Connector for PV System [pdf] Instruction Manual BC01 3 Pin AC Connector for PV System, BC01, BC01 3 Pin AC Connector, 3 Pin AC Connector for PV System, AC Connector for PV System, AC Connector, PV System AC Connector

Manuals+,