

Recommendations for AC Cable Sizing

Three Phase Inverter (5-10K- 4G Series)



Three Phase 4G Inverter cable size (5-10 KW)

Ground Cable.

Solis recommends two Ground protections.

- External heat sink connection.
- Grid connection.

a) External heat sink Ground connection.

Cable Size : $\geq 6 \text{ mm}^2$.
Cable Type : Copper-core cable.
Lug Type : OT.
Lug Size : M6.
Torque : 3 N

➤ Ground Cable Stripping.

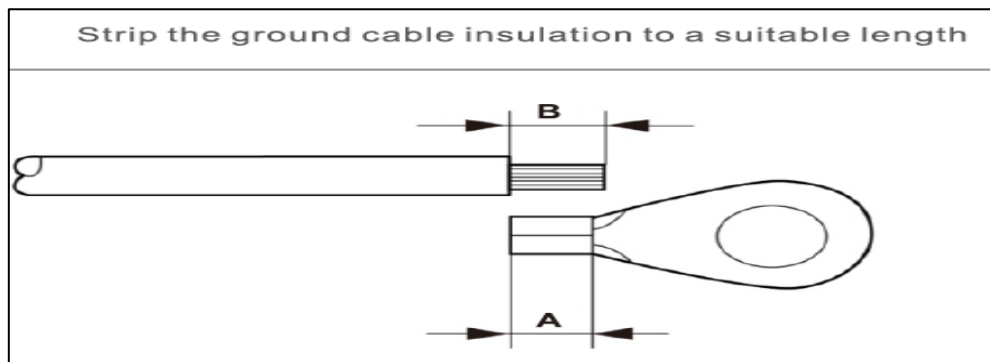


Figure 1 Suitable length

➤ Ground Lug and cable arrangement.

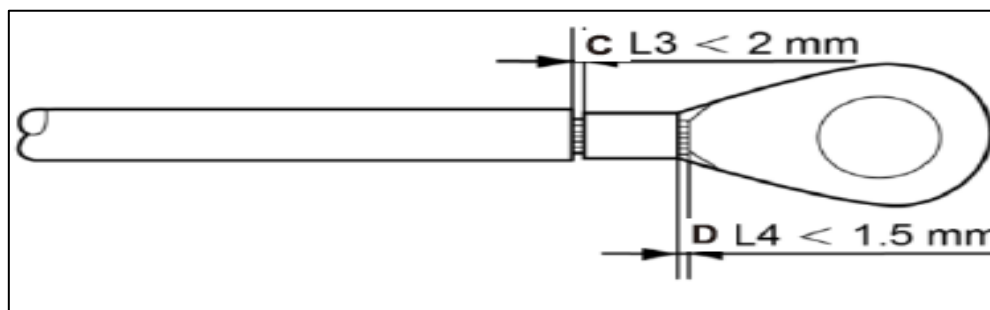


Figure 2 Lug and Cable Arrangement

Inverter Grounding Picture.

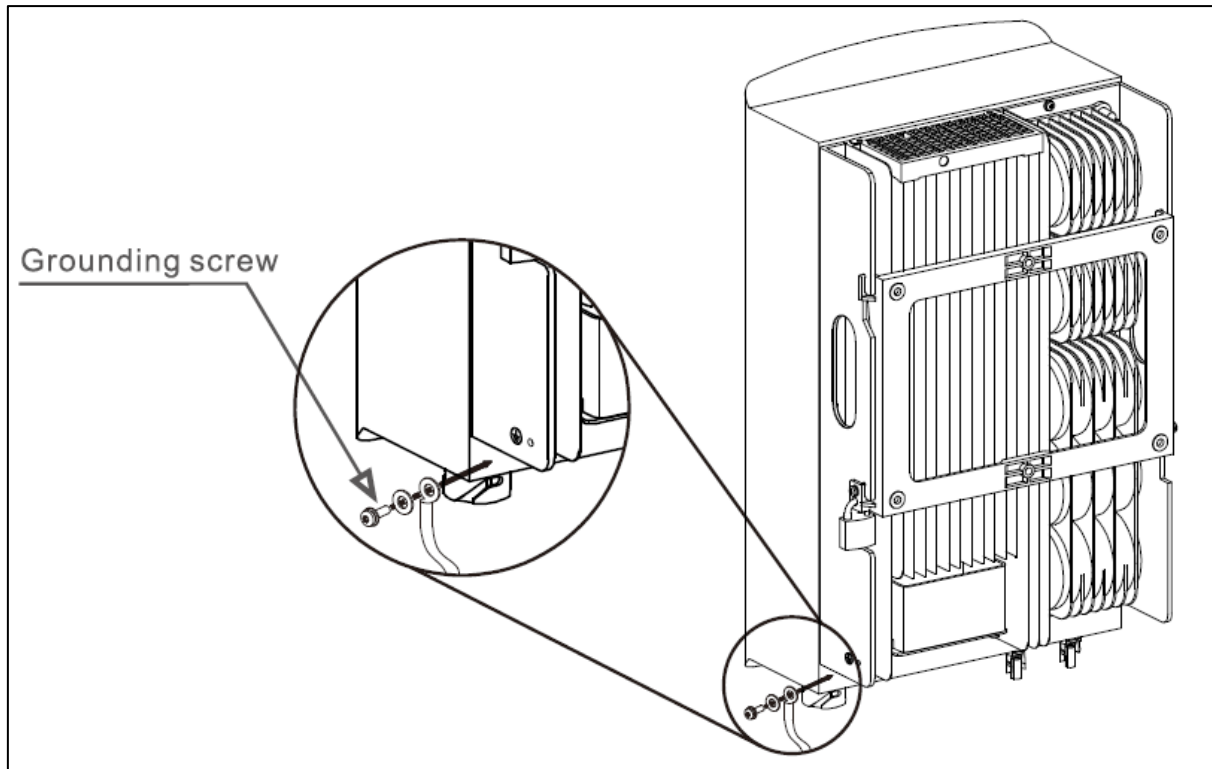


Figure 3 Fixed Cable for Inverter Grounding



Important:

For improving anti-corrosion performance, after ground cable installed, apply silicone or paint is preferred to protect.

AC Termination cable.

- For all AC connections, **2.5- 6 mm² 105 °C** cable is required to be used.
- Please make sure the resistance of cable is lower than **1.5 ohm**.
- If the wire is longer than **20m**, it's recommended to use **6 mm² cable**.





Figure 4 Bottom View of Solis 5-10K

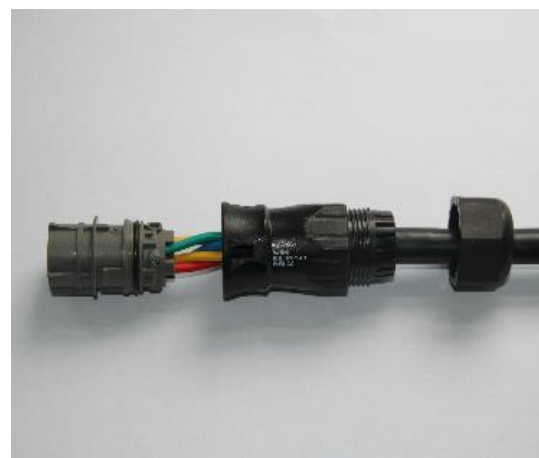
AC Grid Terminal Connector



AC Grid Terminal Connector Inside



Connect the wires to the Grid terminal



Three Phase 4G Inverter cable size details (5-10 KW)

Serial	Item	Description
A.	Cable Size	2.5-6 mm ²
B.	Operation phase	3/N/PE
C.	AC Termination Pins	5 output (L1, L2, L3, N, PE)
D.	Cable Core	4 Core (Body Earthing)/5 core
E.	If more than 20 m	6 mm ²
F.	Tools	PH1 Cross Driver
G.	Termination	Direct Stripped Wire
H.	Ground cable cross section	≥ 6 mm ²
I.	Ground cable Termination	OT Lug
J.	Ground cable Termination Torque	3 Nm
K.	Cable type Recommended	Copper

AC Cable Connecting & Removing tool

