

Before You Begin:**A. Select the correct trunk cable:**

Module + Orientation	#
<ul style="list-style-type: none"> E-Series Portrait X-Series Portrait E-Series Landscape X-Series Landscape 	531573
<ul style="list-style-type: none"> A-Series Portrait M-Series Portrait 	531572
<ul style="list-style-type: none"> A-Series Landscape M-Series Landscape 	532458

Required Documents:

Follow these documents as well:

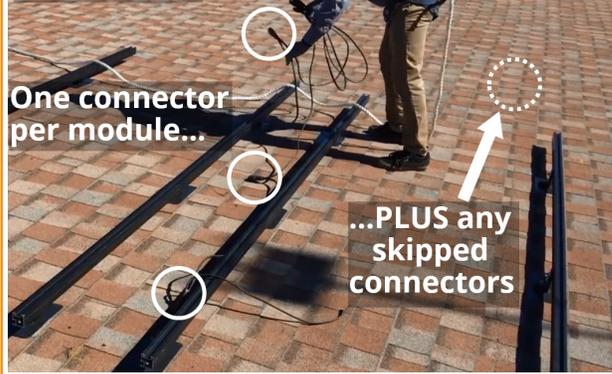
- InvisiMount Installation Guide 508988*
- PVS6 Residential Installation QSG 531566*

Reference Material:

- SunPower Pro Tips YouTube videos:
www.youtube.com/user/sunpower/videos
- Equinox Installation Guide 518101*

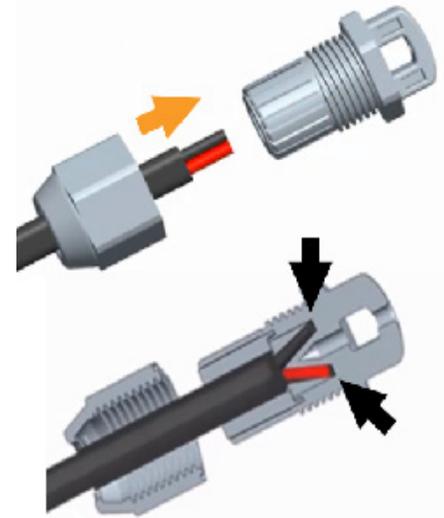
B. Prepare the trunk cable:

- Determine the array circuit layout, noting the number of connectors that will NOT plug into a module (due to row transition or irregular array shape), then cut a section of trunk cable that has one connector per module PLUS that number.
- Add a sealing cap to each skipped connector.
- Add a terminator (**C.**) to the trunk cable where the circuit will end (you may instead do this on the roof after you stage the trunk cable).

Trunk Cable**C. Add a terminator:**

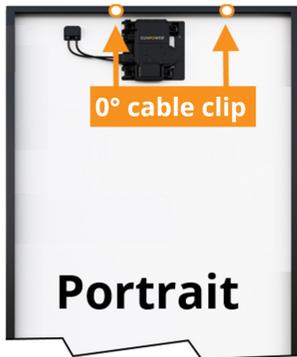
- Remove 1/2" of outer sheathing from one end of the trunk cable—DO NOT remove the black and red insulation on the two conductors. Very slightly separate the two conductors.
- Slide the nut over the cable, with its threads facing away.
- Fit the cable end into the terminator and carefully insert it such that each of the two conductors is internally separated by the terminator. (Ensure that the white inner grommet stays in place.)
- Use a screwdriver through its end to stabilize the terminator, and then tighten the *nut* only—DO NOT ROTATE THE TERMINATOR!
- Use cable clips to manage the terminated end of the trunk cable such that it is not visible and does not contact the roof.

Important! Terminators are single use only!

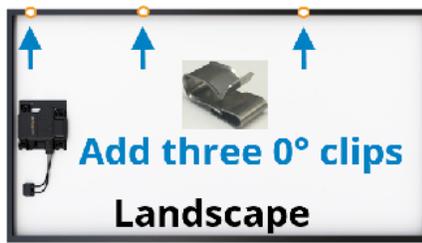
**To install:**

- Mark the array footprint on the roof.
- Locate rafters and determine attachment points.
- Install roof attachments.
- Install rails.
- Level rails.
- Torque attachment hardware.
- Stage the trunk cable atop the rails according to circuit layout; add terminator (if not yet installed) to the circuit end.
- Install the transition j-box (530168) or rail-mounted j-box (530167), and wire the non-terminator end of the trunk cable into it, transitioning to the building wiring and equipment ground conductor (EGC).
- Attach a ground lug assembly to the rail, adjacent to the j-box. **Note:** If you're using 530167, a ground lug is not necessary.
- Attach a 6 AWG copper ground wire to the lug, and connect it to the EGC inside the RMJ using the included cable gland. Install the cover on the RMJ.

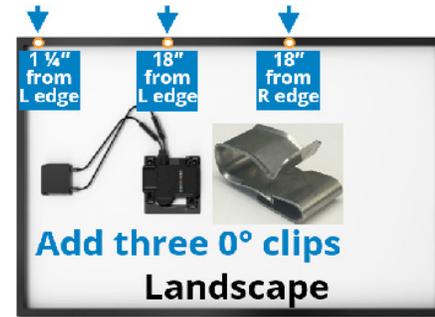
A-Series and M-Series AC Modules



OR



E-Series and X-Series AC Modules

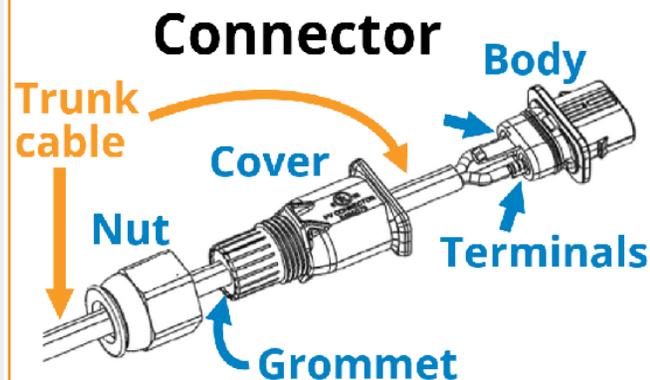


If you need to make a connector:

1. Slide the nut over the cut cable end.
2. Ensure that the grommet is in place inside the cover, and then slide the cover over the cable end.
3. Remove 1 1/16" from the cable's outer sheathing.
4. Strip 3/8" from the red conductor and from the black conductor.
5. Load the two terminals into the 12 GA slot of crimp tool, flush with the slots.

Important! When the connector is fully assembled, the cable outer sheathing must extend completely through the gasket inside the cover, and the gasket must fully cover the sheathing in order to prevent moisture from entering the connector.

6. Fit the exposed conductors into the terminals and crimp them—DO NOT CRIMP OVER THE INSULATION!
7. Insert the terminals into the connector body until each clicks into place, and then tug on them to ensure they are secure.
8. Slide the cover over the body until you feel it click into place.
9. Tighten the nut to 62 in-lb (7 N-m).



11. Install cable management clips on module frames as shown.
12. Transport modules to roof.
13. Remove the microinverter (MI) serial number sticker and place it on your array layout diagram (ALD).
14. Remove the module serial number sticker and place it on your ALD.
15. On each module, carefully raise the MI away from the backsheet until each side clicks into position.
16. Position the first module of first row (the lower row in a two-row array) on the rails, connect the trunk cable, and align the module on the rails with the marked array footprint.
17. Attach the end clamps to the first module.
18. Place the second module next to the first, raise its MI, and connect the trunk cable. Add mid clamps.
19. Continue installing modules till the end of the row, cutting rails as necessary for the last module.
20. Complete wire management of the first row by fitting the trunk cable into the pre-positioned cable clips.
21. Install two row-to-row spacers per module, on the upper edge of each of the first row's modules.
22. Install the second (upper) row by repeating Steps 15–21 of this QSG.
23. Install a row-to-row grounding clip between the two rows, at one end of the array.