

# How thick a wire should be used for photovoltaic panel grounding

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Since the wire will not be installed in a raceway or cable I feel it needs to be at least #6. I'll probably just run a #6 green THWN from the inverter J-box to their roof deck box.

What bare copper wire should I use for solar panel grounding? Throughout this guide, we've covered the key aspects of solar panel grounding, from understanding regulatory requirements to avoiding common mistakes.

Always use #6 AWG bare copper wire for outdoor grounding to meet National Electric Code requirements and pass inspections. This simple yet critical detail can save you time, money, and headaches.

Article 690 of the NEC mandates that #8 AWG or #6 AWG are the smallest wires that can be used with grid-tied solar panels and inverter systems, and for solar panel output circuits, #10 or #12 AWG are required.

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Using high-quality grounding materials is key to safely installing solar panels. Learn the different challenges & grounding requirements for solar panels.

However, for the entire installation to operate safely and efficiently, proper grounding of the photovoltaic system is crucial. In this article, we explain what grounding a photovoltaic installation is, why it is important, and how to do it correctly.

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Panel to panel for electrical it is generally 6awg for the cases and matches current carrying wires or is downsized by one for the ground in sub panels. Nothing wrong with using larger wires for grounding.



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Master solar panel wire sizing with our complete guide including wire size calculators, ampacity charts, voltage drop calculations, and NEC requirements for safe solar installations.

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