

# Equipment Grounding Conductor Size Calculator

Compare selected conductor area with an entered grounding value while keeping the result separate from standards-table interpretation.

Generated October 10, 2026

<https://www.elecatrix.com/wire-raceway-ampacity/equipment-grounding-conductor-size-calculator/>

## Inputs

| Input                   | Value            | Unit  |
|-------------------------|------------------|-------|
| Selected conductor area | 26.24            | kcmil |
| Entered required area   | 16.51            | kcmil |
| Source reference        | egc-table-record |       |

## Results

| Result                  | Value                     | Unit  |
|-------------------------|---------------------------|-------|
| Selected area           | 26.24                     | kcmil |
| Entered required area   | 16.51                     | kcmil |
| Area margin             | 9.73                      | kcmil |
| Area margin percent     | 58.934                    | %     |
| Source reference status | source_recorded           |       |
| Record comparison       | entered_values_comparable |       |

## Calculation details

| Detail            | Value                                                                                              | Unit |
|-------------------|----------------------------------------------------------------------------------------------------|------|
| Calculation basis | The worksheet compares selected area with the required area entered from a reviewed source record. |      |
| Boundary          | Worksheet arithmetic only; no grounding-conductor size is derived from a standards table.          |      |

## Formulas

area margin = selected area - entered required area

area margin percent = area margin / entered required area x 100

source status = source reference is present

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## Warnings and limitations

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Entered-value worksheet only; confirm the adopted rule, source table, conductor material, installation context, and qualified review separately.