

Arc Flash Boundary Calculator

Compare a documented arc-flash distance with a second entered distance and report the signed and absolute differences without performing an incident-energy study.

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<https://www.elecatrix.com/testing-protection-grounding/arc-flash-boundary-calculator/>

Inputs

Input	Value	Unit
Reference distance	18	in
Entered distance	24	in
Source reference	arc-flash-record-a	

Results

Result	Value	Unit
Reference distance	18	in
Entered distance	24	in
Distance difference	6	in
Absolute distance difference	6	in
Record comparison	source_recorded	

Calculation details

Detail	Value	Unit
Calculation basis	The worksheet compares an entered distance with an entered reference distance.	
Review boundary	Entered-value worksheet only; no incident-energy, boundary, equipment, task, or project determination is made.	

Formulas

$\Delta d = d_{\text{entered}} - d_{\text{reference}}$

$|\Delta d| = |d_{\text{entered}} - d_{\text{reference}}|$

Warnings and limitations

Entered-value comparison only; use a reviewed study for incident-energy, equipment, task, boundary, and project decisions.