

Fuse Coordination Screen Calculator

Compare entered upstream and downstream clearing times and report the arithmetic margin for preliminary protection review.

Generated October 10, 2026

<https://www.elecatrix.com/testing-protection-grounding/fuse-coordination-screen-calculator/>

Inputs

Input	Value	Unit
Upstream clearing time	0.25	s
Downstream clearing time	0.1	s
Minimum margin	100	%

Results

Result	Value	Unit
Required upstream time	0.2	s
Actual time margin	0.15	s
Actual margin	150	%

Entered time-margin screen

meets_entered_screen

Calculation details

Detail	Value	Unit
Calculation basis	The worksheet compares upstream and downstream clearing times using the entered minimum margin.	
Boundary	Screen only; this does not approve fuse coordination, TCC behavior, interrupting rating, or protection settings.	

Formulas

required upstream time = downstream clearing time x (1 + minimum margin percent / 100)

actual time margin = upstream clearing time - downstream clearing time

actual margin percent = actual time margin / downstream clearing time x 100

coordination comparison = meets entered screen when upstream time is at least required upstream time

Warnings and limitations

Fuse Coordination Screen Calculator

Compare entered upstream and downstream clearing times and report the arithmetic margin for preliminary protection review.

Generated October 10, 2026

<https://www.elecatrix.com/testing-protection-grounding/fuse-coordination-screen-calculator/>

Gated worksheet only. It does not approve fuse coordination; exact device curves, tolerances, fault levels, and protection review are required.