

Continuity Test Calculator

Correct a continuity-test resistance reading for entered lead resistance and compare it with a reference threshold; test current is recorded for context only.

Generated October 10, 2026

<https://www.elecatrrix.com/testing-protection-grounding/continuity-test-calculator/>

Inputs

Input	Value	Unit
Measured resistance	0.8	ohm
Lead resistance	0.2	ohm
Reference threshold	1	ohm
Test current	100	mA

Results

Result	Value	Unit
Corrected resistance	0.6	ohm
Threshold margin	0.4	ohm

Reference comparison

Within reference threshold

Calculation details

Detail	Value	Unit
Calculation basis	Corrected resistance equals the entered measured resistance less the entered lead resistance.	
Testing boundary	Worksheet arithmetic only; no acceptance criterion, calibration, test-procedure, grounding, bonding, energized-work, or inspection result is made.	

Formulas

Corrected resistance = measured resistance - lead resistance

Threshold margin = reference threshold - corrected resistance

Within reference when corrected resistance leq entered threshold

Warnings and limitations

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This continuity test estimate uses entered measurement and reference values. It does not establish an acceptance criterion, verify instrument calibration, prove bonding or grounding performance, or approve energized work.