

Test Lead Correction Calculator

Correct a measured resistance reading for test-lead resistance and compare the corrected value with an entered reference threshold.

Generated October 10, 2026

<https://www.elecatrix.com/testing-protection-grounding/test-lead-correction-calculator/>

Inputs

Input	Value	Unit
Measured resistance	0.82	ohm
Lead resistance	0.18	ohm
Reference threshold	1	ohm

Results

Result	Value	Unit
Corrected resistance	0.64	ohm
Reference margin	0.36	ohm
Lead share	21.9512	%

Status

Status	Value	Unit
Reference comparison	At or below entered reference threshold	

Calculation details

Detail	Value	Unit
Calculation basis	Corrected resistance equals measured resistance minus entered lead resistance.	
Testing boundary	Arithmetic correction only; no acceptance threshold, instrument calibration, contact quality, or safety procedure is verified.	

Formulas

Corrected resistance = Measured resistance - Lead resistance

Reference margin = Reference threshold - Corrected resistance

Lead share percent = (Lead resistance/Measured resistance) x 100

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Warnings and limitations

This worksheet only corrects an entered resistance reading for entered lead resistance. It does not establish test acceptance, calibration status, bonding quality, or safe work conditions.