

HOW TO: Test **Point to Point** Grounding Continuity Test

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1. Required Equipment:

A. Amprobe multimeter with current calibration



Amprobe HD110C or equivalent

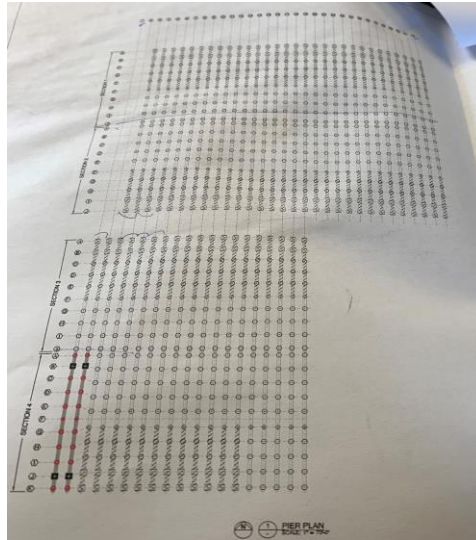
- 1. Purchase at: <https://www.grainger.com/product/AMPROBE-AMPROBE-Digital-Multimeter-2ATA6?sechQuery=HD110C&searchBar=true&tier=Tier+6>

B. Wire for extending reach of ground test cable

2. Safety Requirements before Testing

1. Before starting any test, review the following:

A. Drawing



Rows and columns

1. Become familiar with area to be tested, including blocks, column and row #s.
2. Review inverter, CBX and pile locations.
3. Test will require two people who are aware of layout and grid numbering.

B. Job Hazard Analysis (JHA).

1. Create a step-by-step site specific procedure on how the task will be accomplished.
2. This document is not site specific and is only a general procedure on how to perform Point-to-Point testing.
3. Get procedure reviewed by E Light's Director of Safety and Loss Prevention.

NOTE: This test confirms all structures associated with site are grounded (all piles, torque tubes, framing, CBXs/DSCs and all parts of inverter)

3. Prerequisites for testing

1. Verify proper connections of equipment and structure to the ground grid.
2. Verify ground ring around inverter has been completed, connected and backfilled.

4. Testing:

1. Locate access point to ground grid at inverter
2. Set multimeter to lowest ohms scale
3. Contact test leads to ground grid and all exposed metal of structure and equipment frame.
 - a. Record resistance value of all locations.
4. Use additional wire to extend ground to test post/piles of panel structure.
 - a. Record resistance value of all locations.
5. Continue until all piles of each row (and torque tubes) have been verified for continuity to ground.
 - a. Confirm all recorded resistance values of all locations.

NOTE: Resistance should be 1 ohm or less. Investigate and correct structure or equipment grounding as required.

5. Testing Report:

A. Form



Point to Point.xlsx

1. Type Test Report and submit entire block in pdf format to E Lights Commissioning Manager.
2. Edit form to site specific requirements.
3. Only submit pdf format to customer/client.