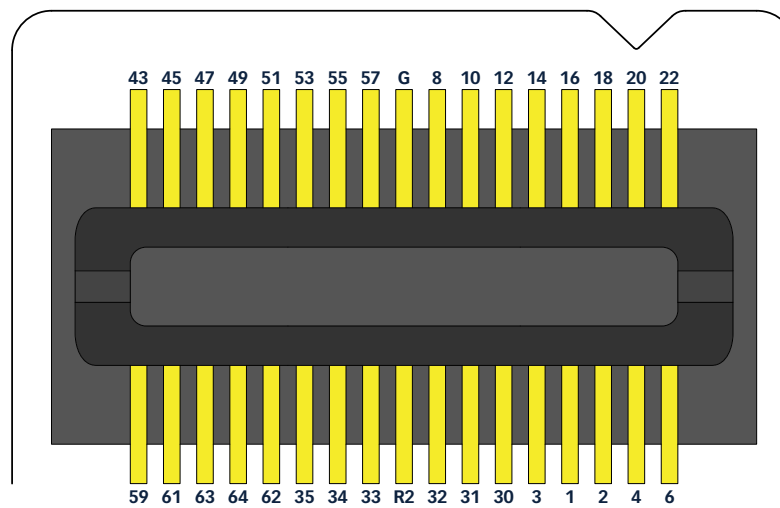
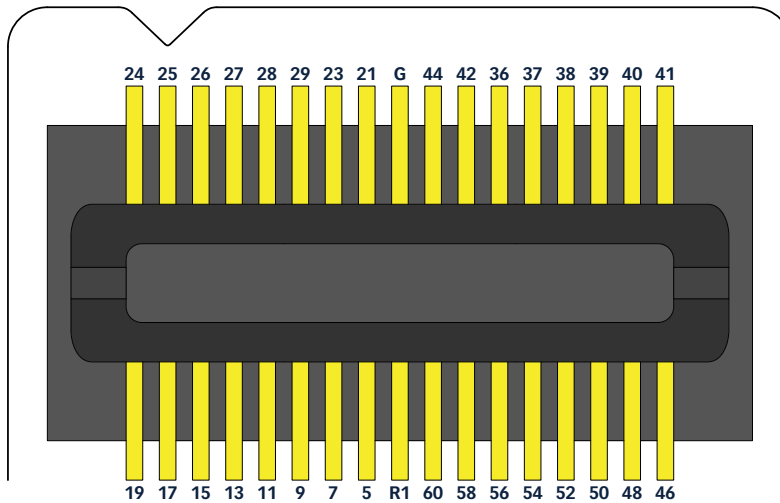


### Z64 Connector

p.1



G = Ground  
R = Reference

### SPECIFICATIONS

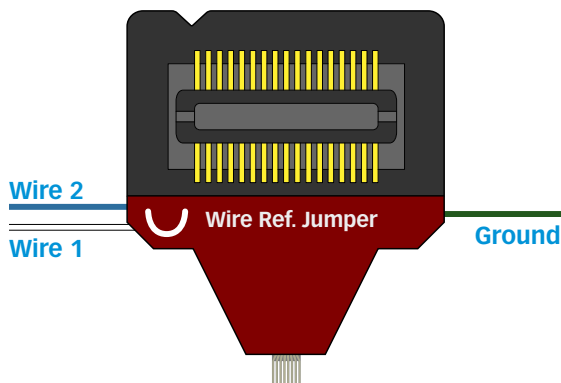
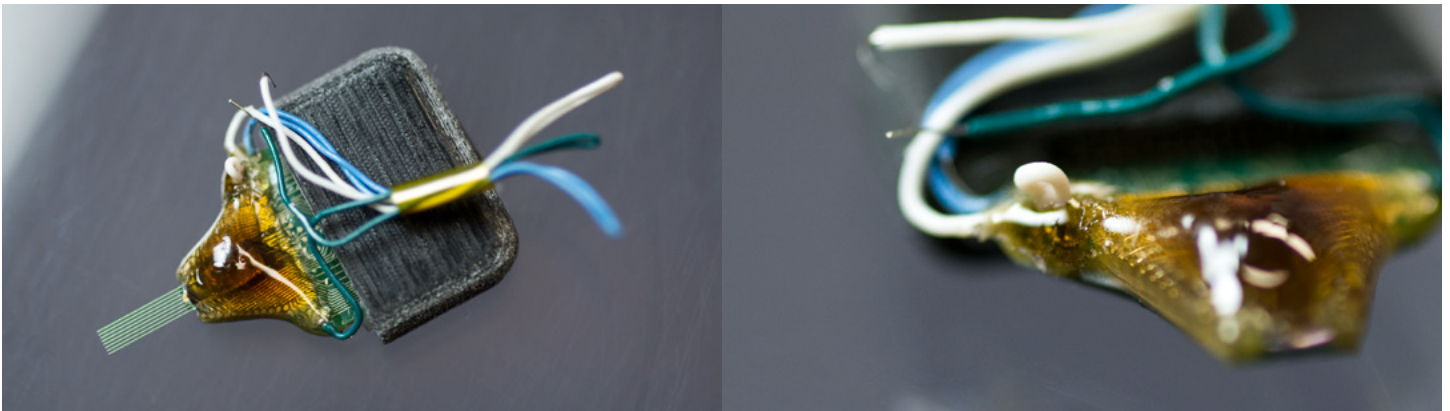
**Connector** ZIF Clip® Connector, 64 Channels

**Mating Connector** ZIF Clip® Headstage, 64 Channels

Note: For proper grounding, please use the correct wiring configuration for your probe

### Reference Channel Configuration (3 Insulated Wires, 1 Jumper)

p.2



The Z64 Gen. 4 package has 3 insulated wires and 1 wire loop jumper. The Ground wire is green. Wires 1 and 2 correspond to the Reference pins on the Zif Clip™ connector (Wire 1 connects to R1, etc.). **Please read fully before making your desired changes - it may not be possible to reconnect the wire loops once they have been cut.**

NeuroNexus recommends taking one of three possible reference configuration options. **You must choose one option (see below) and act accordingly or a ground loop may form.**

**If your probe has a Probe Reference site, and you want to use it,** follow these instructions:

1. **Cut** Wire 1 (white)
2. Channel R1 serves as the Probe Reference. Wire 2 (blue) connects an external reference to Channel R2; if you do not want to use an external reference, cut Wire 2.

**To use only 1 external reference source,** follow these instructions:

1. **Cut** the Wire Reference Jumper
2. Tie Wire 1 and Wire 2 together. Channels R1 and R2 both serve as the external reference.

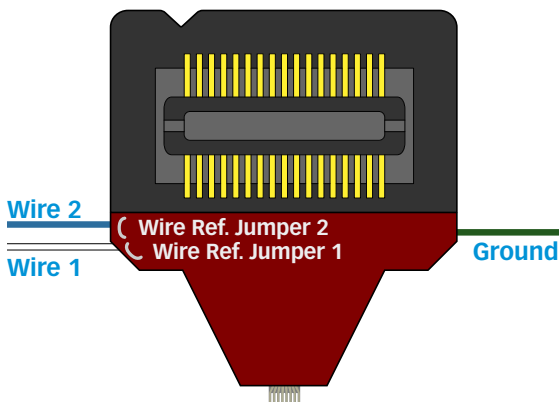
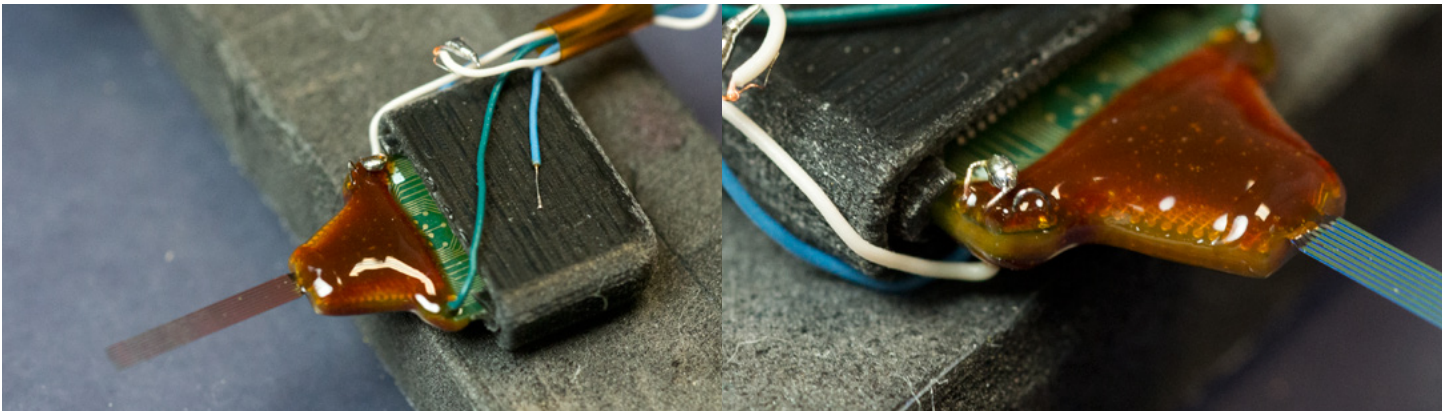
**To use 2 external reference sources,** follow these instructions:

1. **Cut** the Wire Reference Jumper
2. Channels R1 and R2 serve as independent external references. Wire 1 (white) feeds into Channel R1, and Wire 2 (blue) feeds into Channel R2.

Note: For proper grounding, please use the correct wiring configuration for your probe

### Reference Channel Configuration (3 Insulated Wires, 2 Jumpers)

p.3



The Z64 Gen. 3 package has 3 colored insulated wires and 2 bare wire loop jumpers (see above). The Ground wire is green. Wires 1 and 2 correspond to the Reference pins on the Zif Clip™ connector (Wire 1 connects to R1, etc.). **Please read fully before making your desired changes - it may not be possible to reconnect the wire loops once they have been cut.**

NeuroNexus recommends taking one of three possible reference configuration options. **You must choose one option (see below) and act accordingly or a ground loop may form.**

**If your probe has a Probe Reference site, and you want to use it,** follow these instructions:

1. **Cut** Wire Reference Jumper 2
2. **Cut** Wire 1 (white)
3. Channel R1 serves as the Probe Reference. Wire 2 (blue) connects an external reference to Channel R2; if you do not want to use an external reference, cut Wire 2.

**To use only 1 external reference source,** follow these instructions:

1. **Cut** Wire Reference Jumper 1
2. **Cut** Wire 1. Channels R1 and R2 both serve as the external reference.

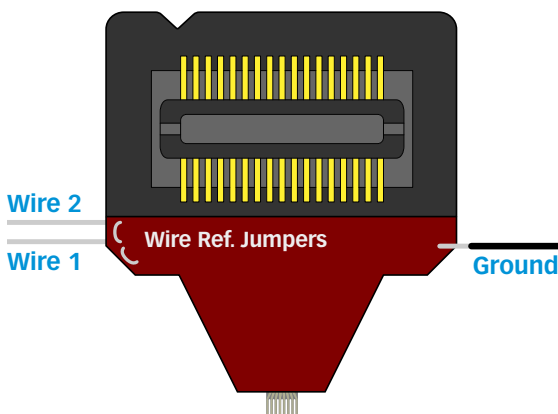
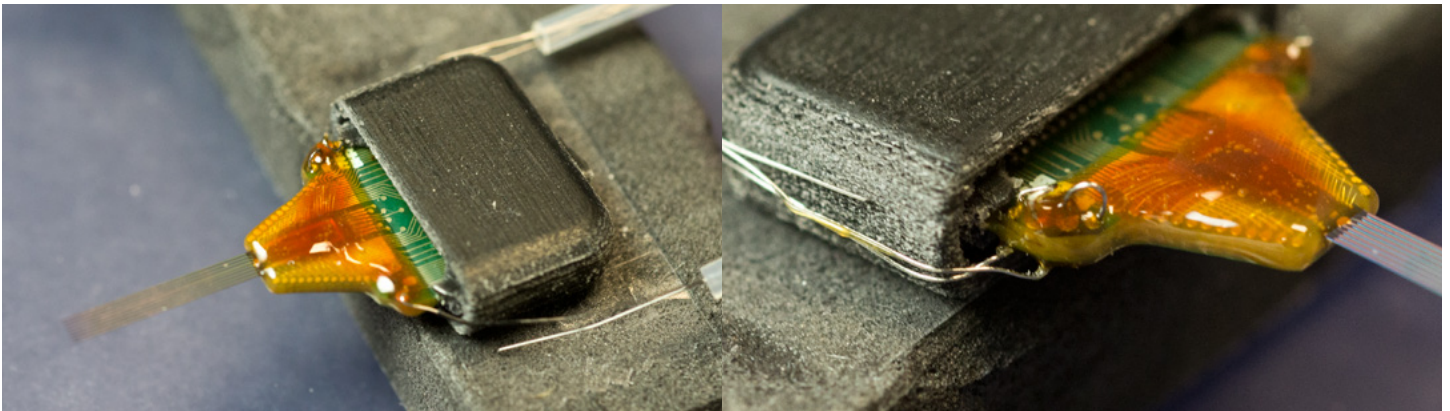
**To use 2 external reference sources,** follow these instructions:

1. **Cut** both Wire Reference Jumpers
2. Channels R1 and R2 serve as independent external references. Wire 1 (white) feeds into Channel R1, and Wire 2 (blue) feeds into Channel R2.

Note: For proper grounding, please use the correct wiring configuration for your probe

### Reference Channel Configuration (3 Uninsulated Wires, 2 Jumpers)

p.4



The Z64 Gen. 2 package has 3 uninsulated wires and 2 uninsulated wire loop jumpers (see above). The Ground wire is designated with black shrink wrap. Wires 1 and 2 correspond to the Reference pins on the Zif Clip™ connector (Wire 1 connects to R1, etc.). **Please read fully before making your desired changes - it may not be possible to reconnect the wire loops once they have been cut.**

NeuroNexus recommends taking one of three possible reference configuration options. **You must choose one option (see below) and act accordingly or a ground loop may form.**

**If your probe has a Probe Reference site, and you want to use it,** follow these instructions:

1. **Cut** Wire 1
2. Channel R1 serves as the Probe Reference. Wire 2 connects an external reference to Channel R2; if you do not want to use an external reference, cut Wire 2.

**To use only 1 external reference source,** follow these instructions:

1. **Cut** the Wire Reference Jumper
2. Tie Wire 1 and Wire 2 together. Channels R1 and R2 both serve as the external reference.

**To use 2 external reference sources,** follow these instructions:

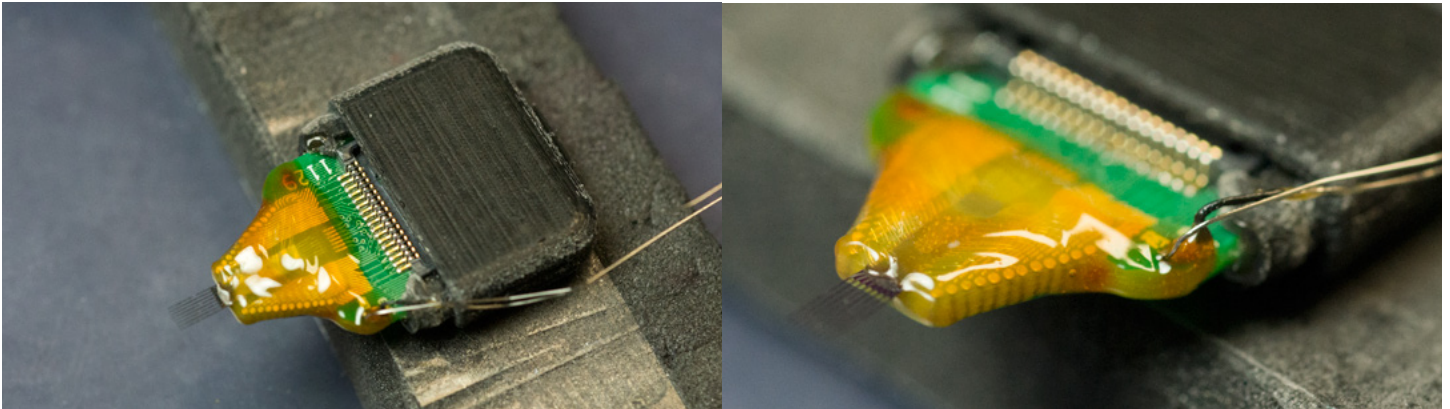
1. **Cut** the Wire Reference Jumper
2. Channels R1 and R2 serve as independent external references. Wire 1 feeds into Channel R1, and Wire 2 feeds into Channel R2.



*Note: For proper grounding, please use the correct wiring configuration for your probe*

### Reference Channel Configuration (2 Uninsulated Wires, No Jumpers)

p.5



The Z64 Gen. 1 package has no wire loop jumpers (see above) and 2 bare wires. The Ground wire is designated with black shrink wrap.

**IMPORTANT:** Check our catalog to see if your probe model has a probe reference (PR) site.

**If your design has a PR site,** and you plan on using it:

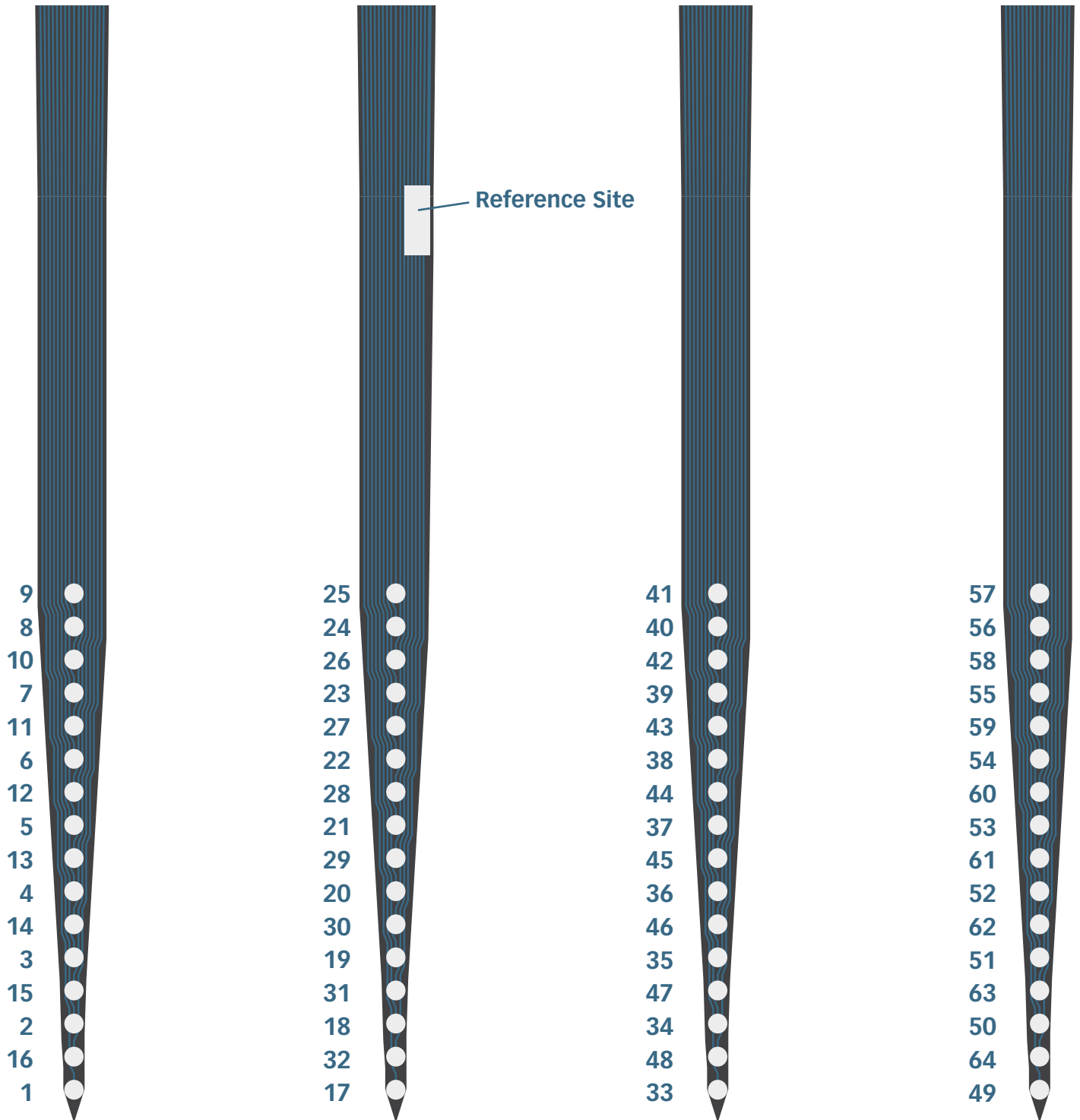
1. **Cut** the Reference wire (the Reference wire does *not* have black shrink wrap)
2. Make sure that the PR site is completely implanted
3. Reference channels R1 and R2 function as the Probe Reference (Z16 packages only have 1 Reference channel)

**If your probe does not have a PR site,** connect the Reference wire to your external reference source. Reference channels R1 and R2 function as the External Reference.



A4x16

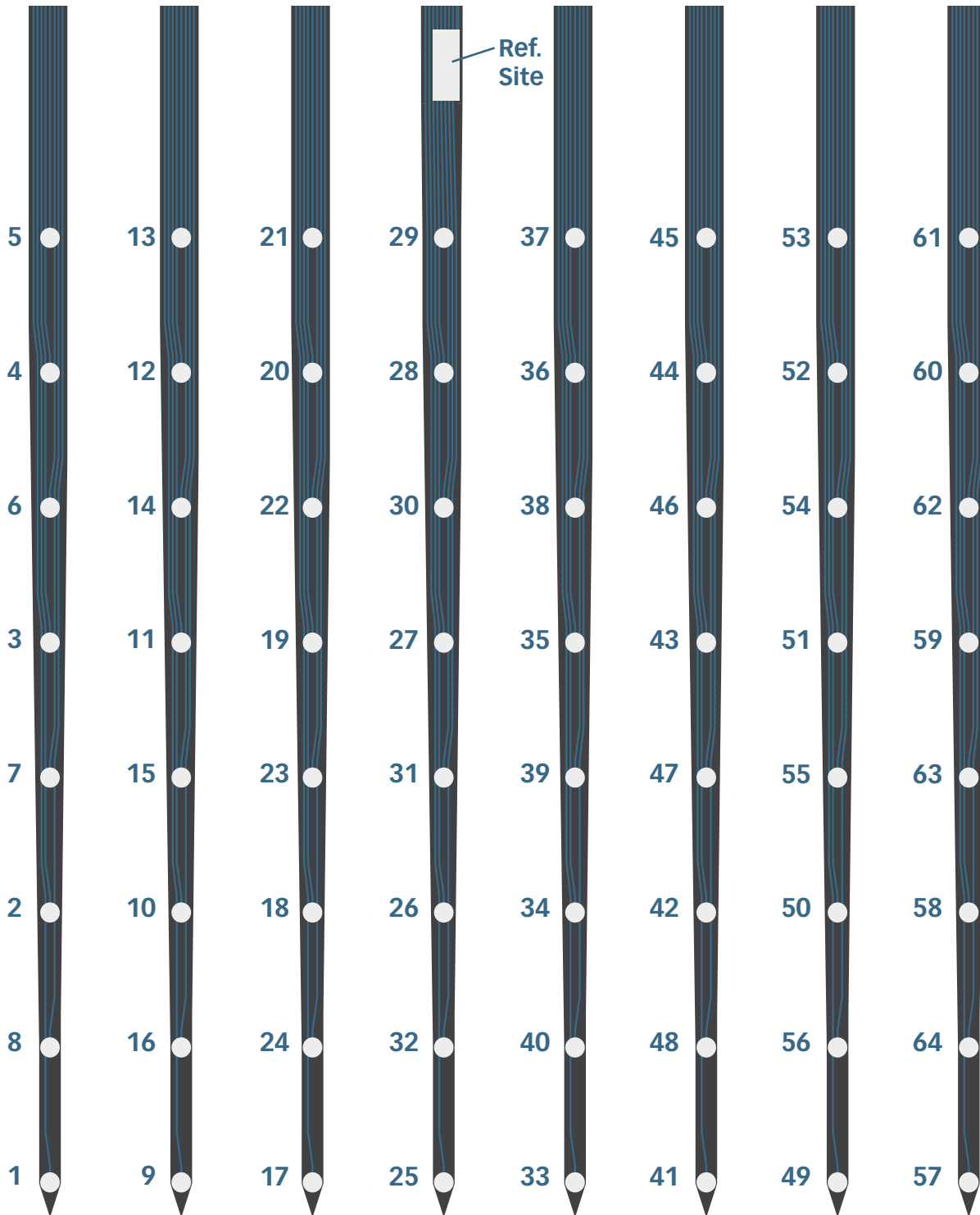
p.6





A8x8

p.7





Buzsaki64

p.8

