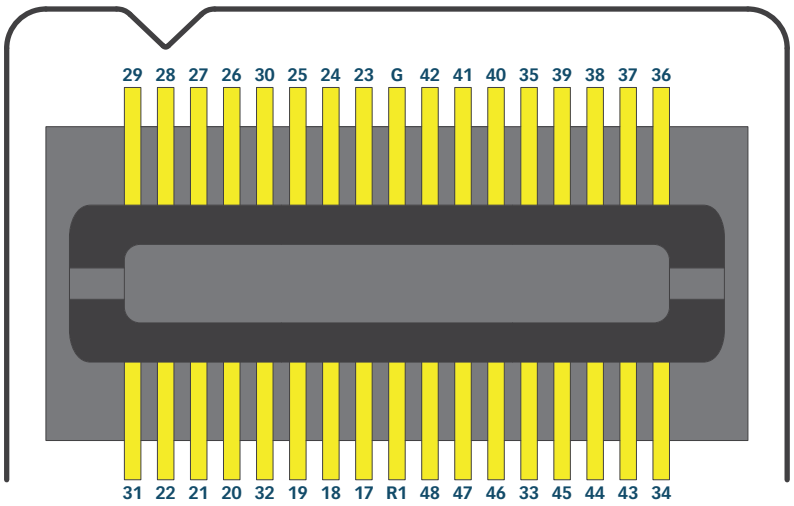
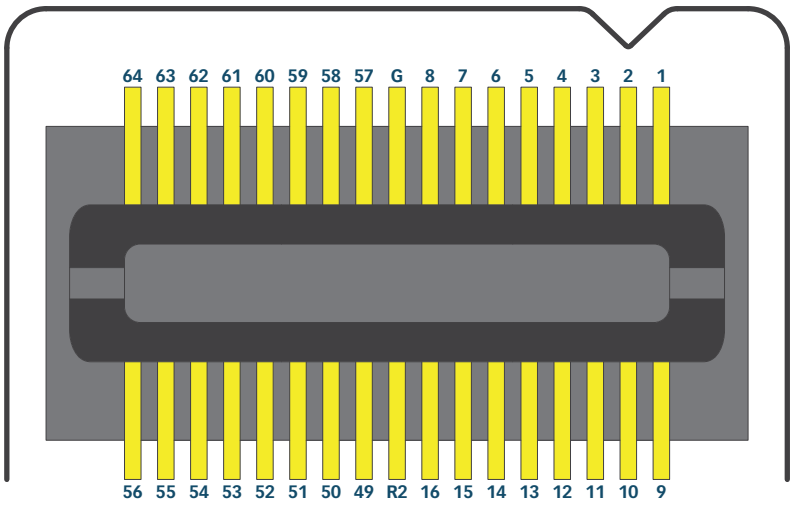
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HZ64 Package
Updated January 26, 2015

HZ64 Connector





G = Ground
R = Reference

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

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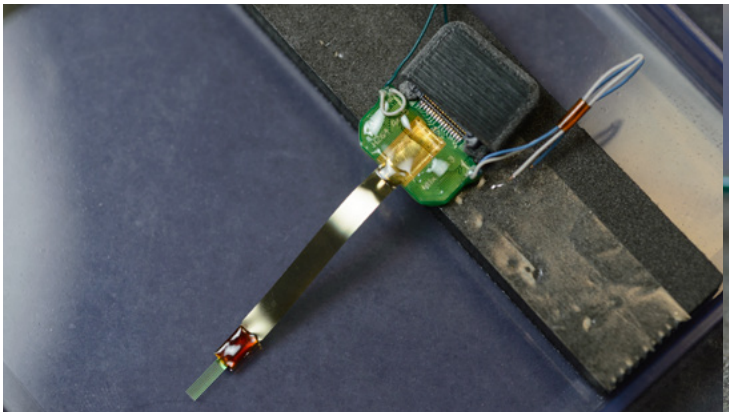
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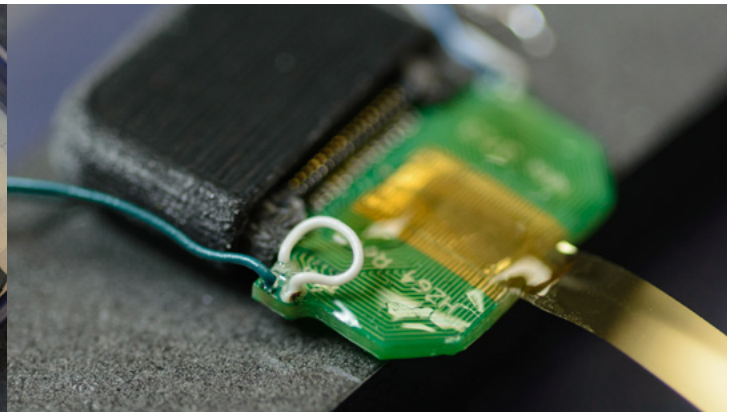
MAPPING
HZ64 Package
Updated January 26, 2015

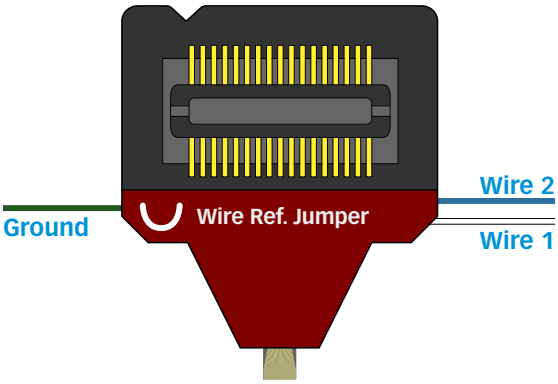
Note: For proper grounding, please use the correct wiring configuration for your probe

Reference Channel Configuration (3 Wires, 1 Jumper)

p.2







The HZ64 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:

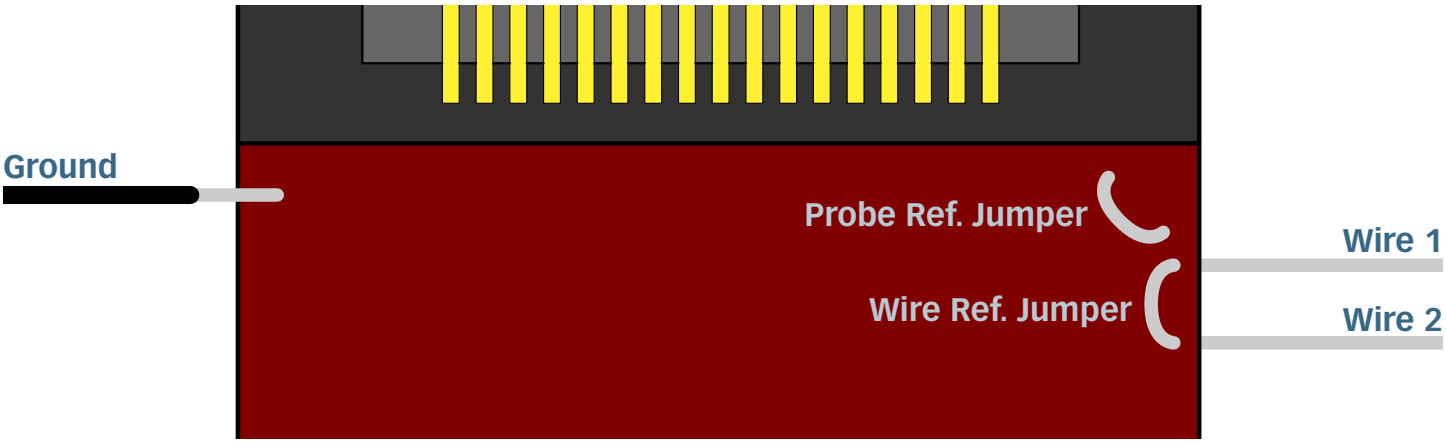
1. **Cut** the Wire Reference Jumper
2. Channels R1 and R2 serve as independent external references. Wire 1 (white) feeds into Channel R1, and Wire 2 (blue) feeds into Channel R2.

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

Reference Channel Configuration (2 Wires, 2 Jumpers)

p.3



The HZ64 package has 2 wire jumpers (see above). Wire 1 and Wire 2 correspond to the R1 and R2 pins respectively on the Zif Clip® connector. Depending on how these loops are cut, different reference channel configurations can be obtained. **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 two reference configuration options. **You must choose one option (see below) and act accordingly. Using a probe as-is may create ground loops.** Never use an external wire reference through Wire 1 with an active Probe Reference site, as this creates a ground loop.

A **To use the Probe Reference site,** pursue **one** of the following two options:

1. To feed Probe Reference into both R1 and R2 channels, cut Wires 1 and 2 and leave the jumpers uncut.
2. To feed Probe Reference to R1 and an external reference to R2 (via Wire 2), cut Wire 1 and the Wire Reference Jumper.

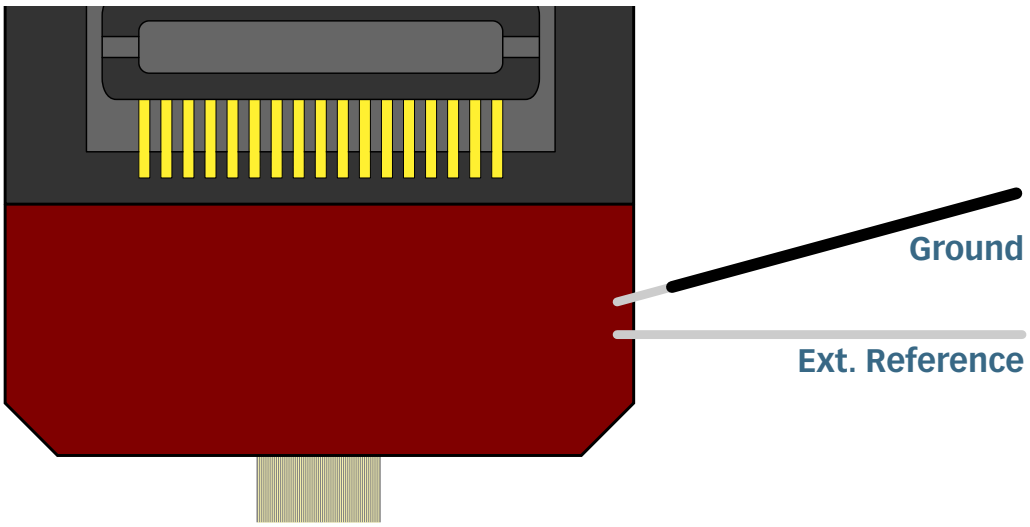
B **To disable the Probe Reference site, cut the Probe Reference Jumper,** then take **one** of the following two actions:

1. For independent wire reference signals, cut the Wire Reference Jumper. Wire 1 feeds into the R1 channel, and Wire 2 feeds into the R2 channel.
2. For one wire reference signal into both R1 and R2 channels, cut either Wire 1 or Wire 2.

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

Reference Channel Configuration (2 Wires, No Jumpers)

p.4



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 did not request that the PR site be disconnected:

1. Cut the External Reference wire
2. Make sure that the PR site is completely implanted

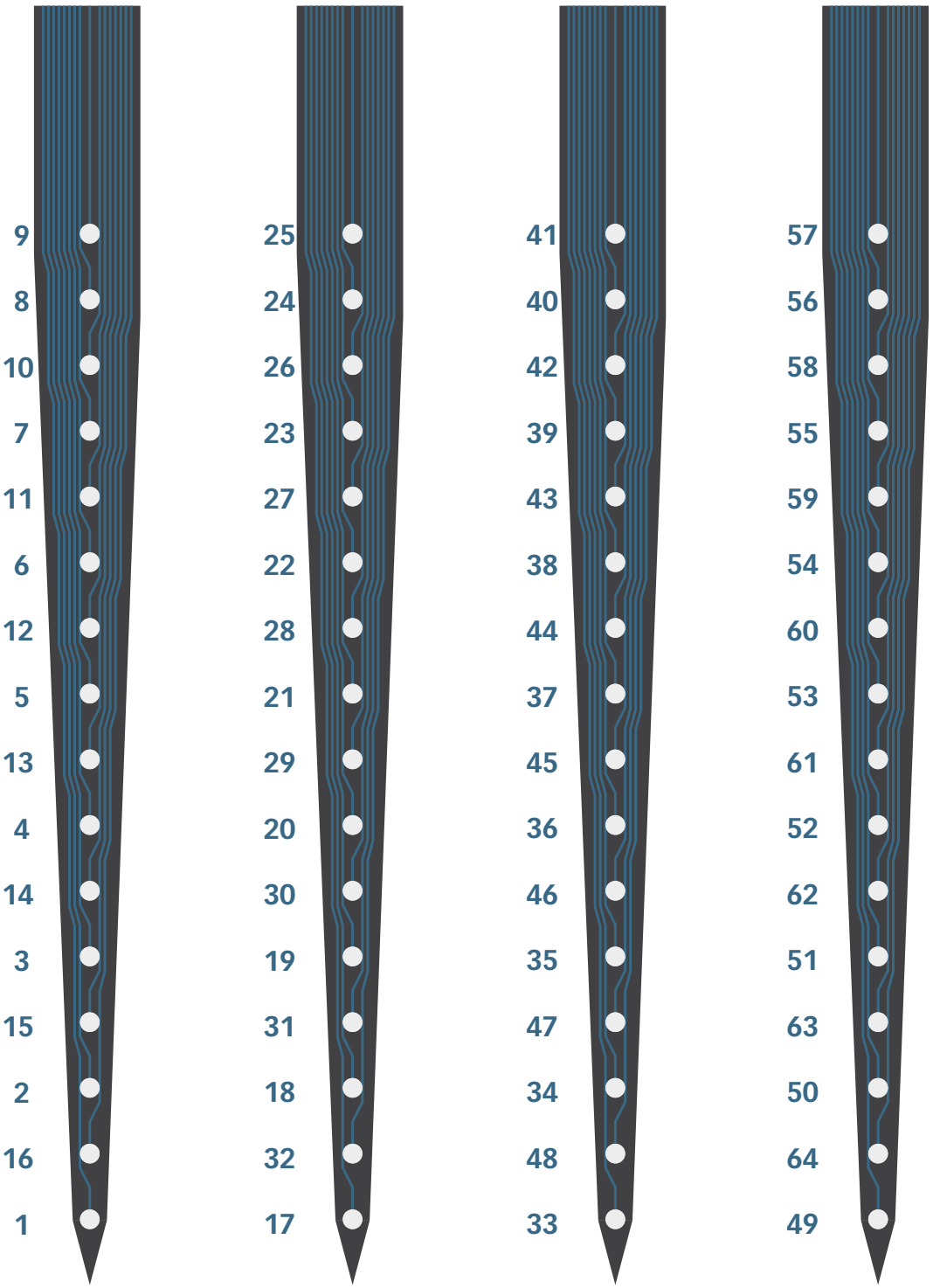
If your probe has a PR site, all Reference channels (see p.1) will function as the probe reference. If you probe does not have a PR site, or has the PR site disconnected, all Reference channels will function as the external reference.

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A4x16



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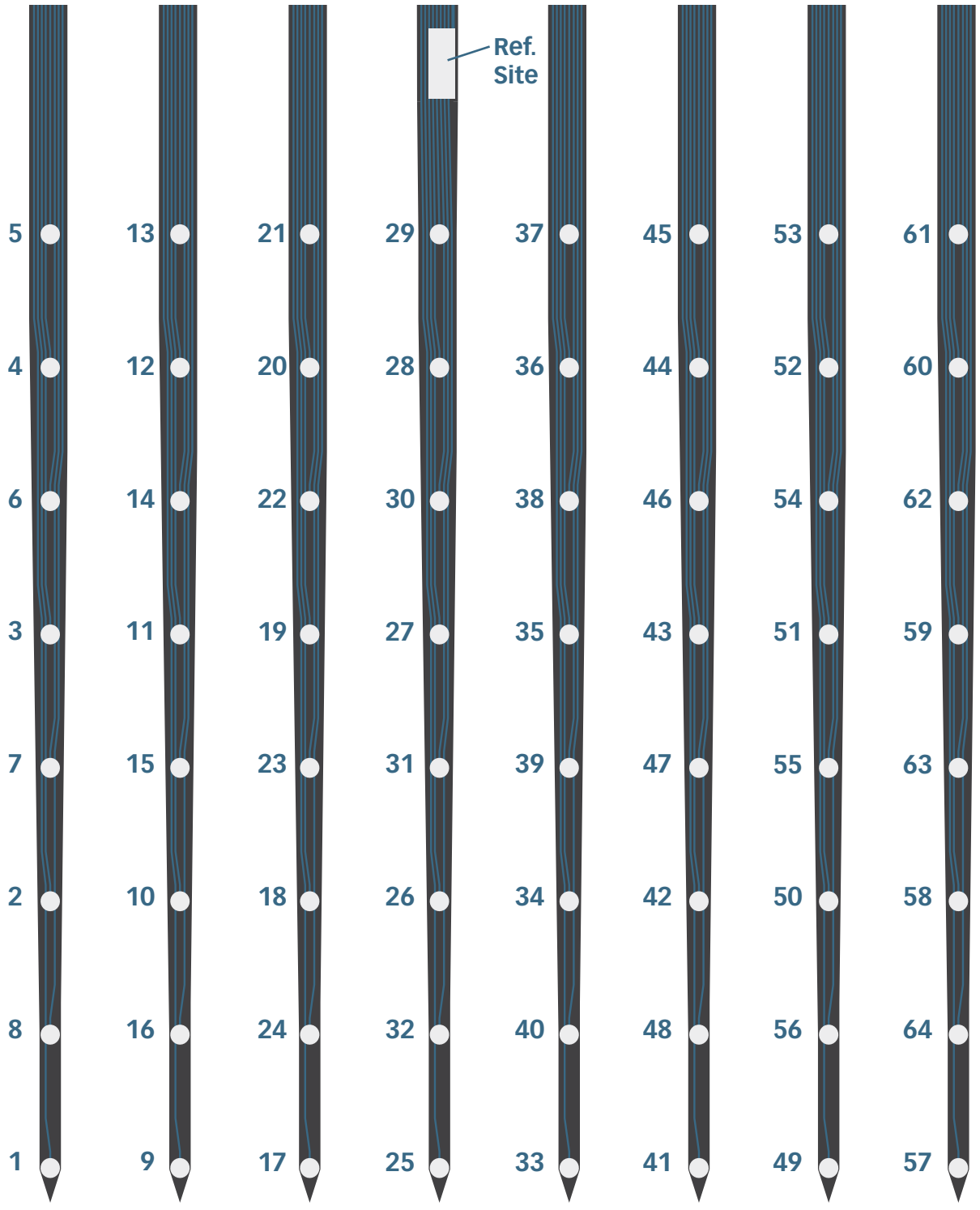
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A8x8

p.6



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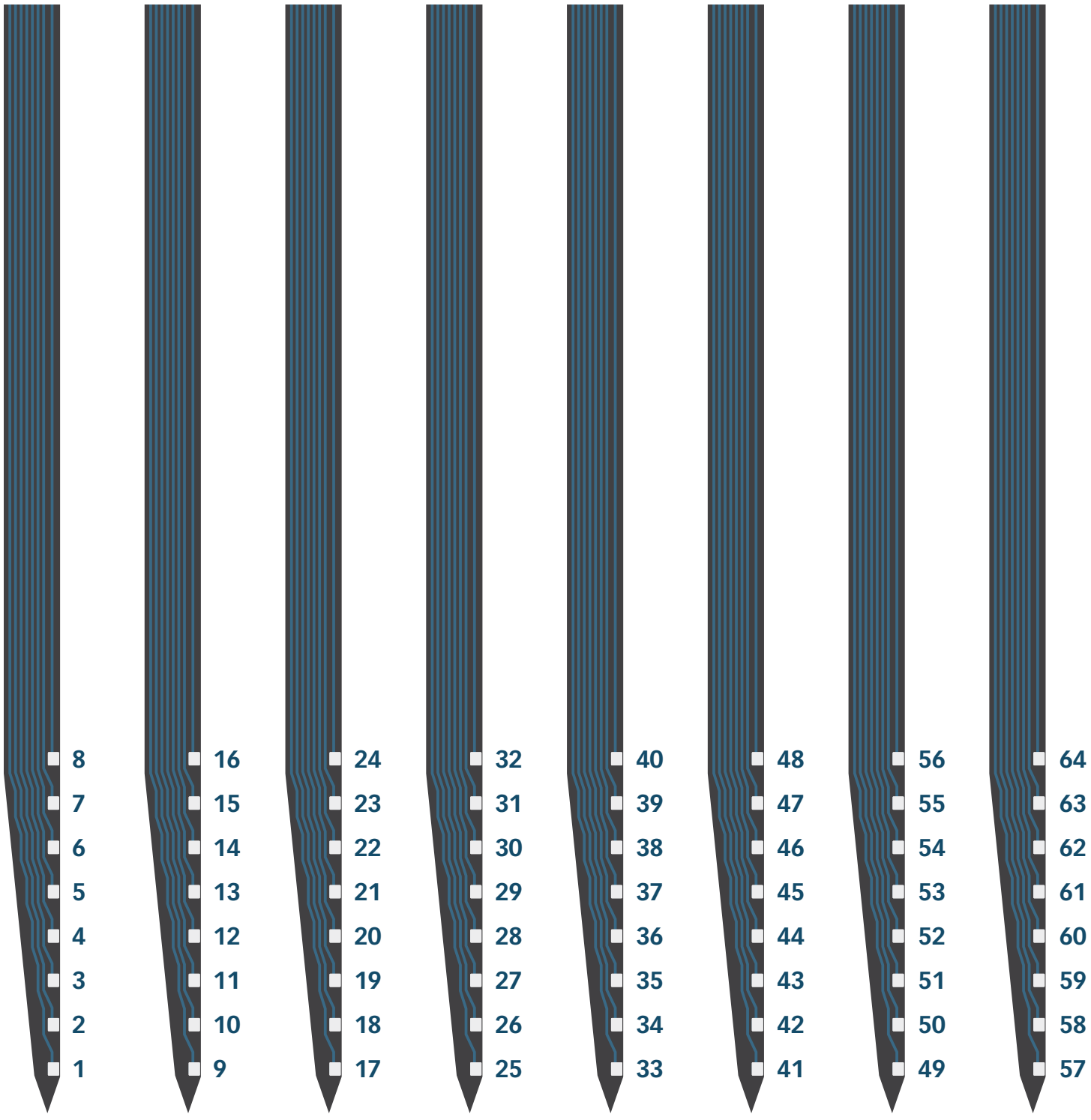
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A8x8-Edge

p.7



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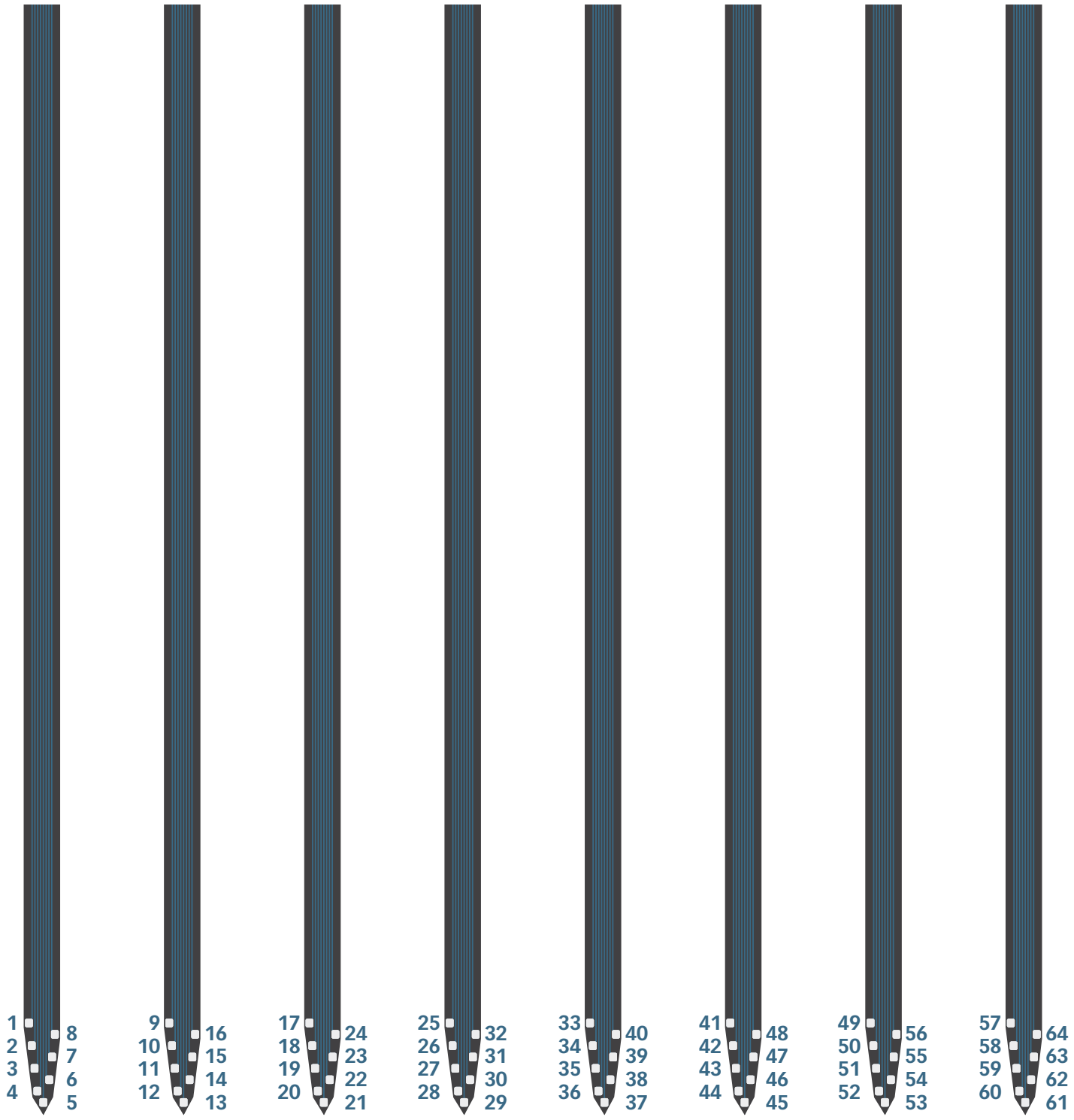
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Buzsaki64

p.8



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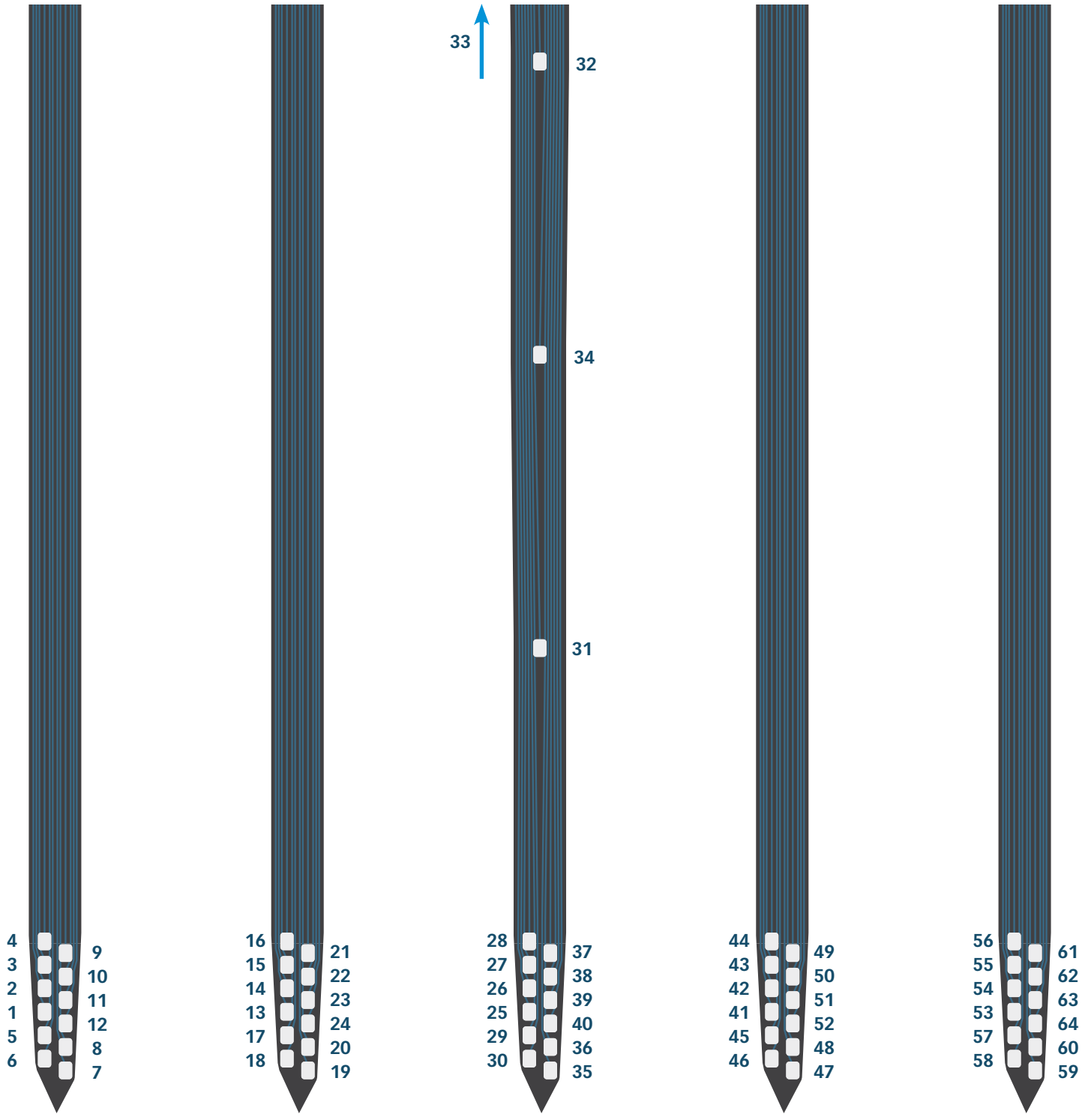
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p.9



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p.10

