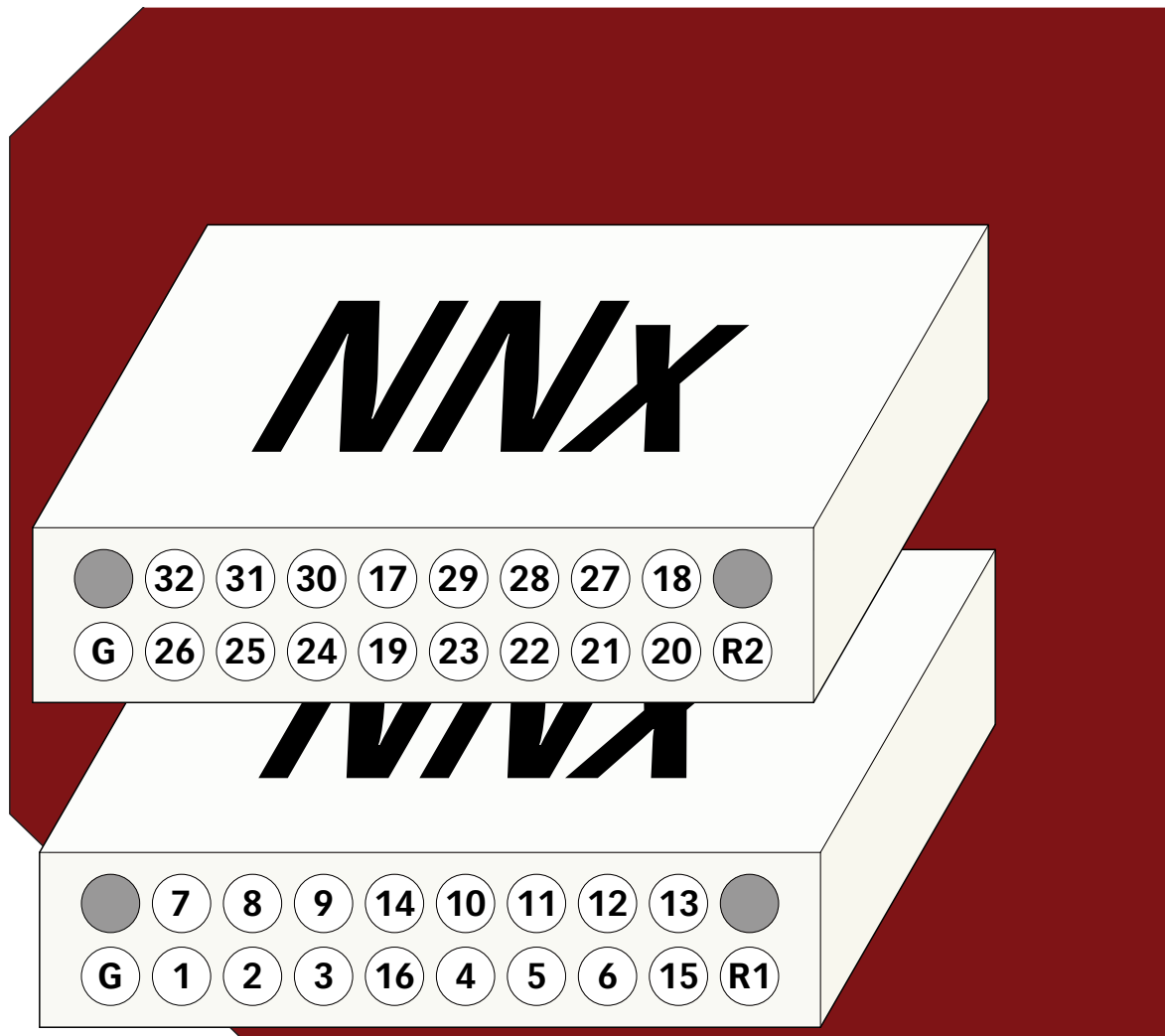


## HC32 Connector



**G = Ground**  
**R = Reference**

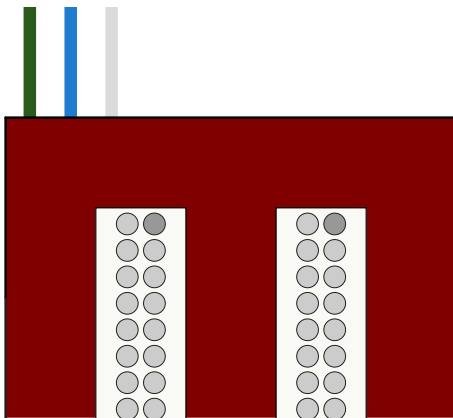
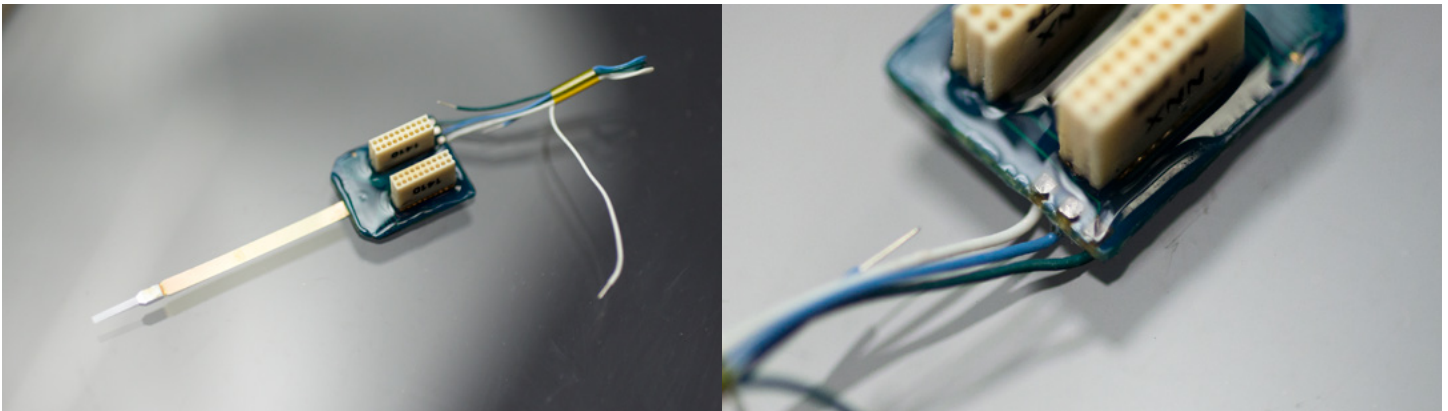
### SPECIFICATIONS

**Connector** (2x) Omnetics 18 Position Dual Row Male Nano Miniature Connector (2 guideposts)

**Mating Connector** (2x) Omnetics 18 Position Dual Row Female Nano Miniature Connector (2 guideposts)

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

### Reference Channel Configuration (3 wires, no jumpers)



This HC32 package has 3 colored insulated wires. The Ground wire is green. The blue wire is connected to channels R1 and R2 (see pin out diagram), and the white wire is connected to the probe reference site. **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,** take **only one** of the following two actions:

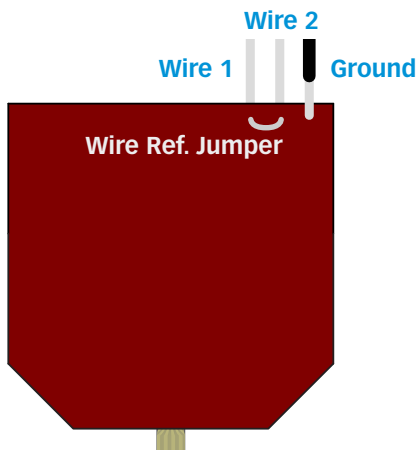
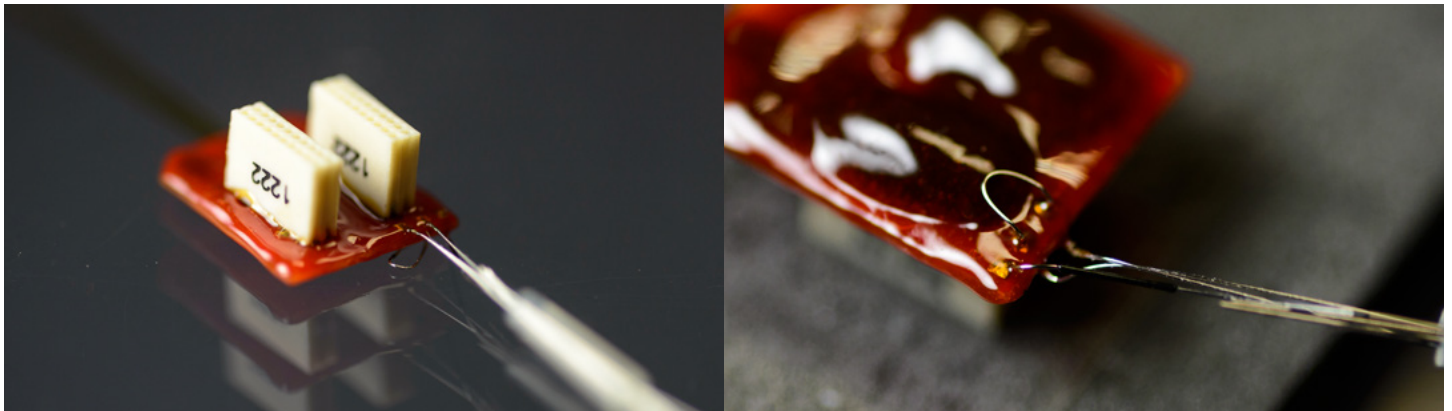
1. **EITHER** tie the blue and white wires together to feed the probe reference into channels R1 and R2,
2. **OR** connect the white wire to the reference port on your headstage (if it has one). Cut the blue wire. The probe reference now feeds into the reference channel on the headstage.

**To use only an external reference,** follow these instructions:

1. Cut the white wire
2. Connect the blue wire to your external reference source. The external reference will feed into channels R1 and R2.

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

### Reference Channel Configuration (3 wires, 1 jumper)



This HC32 package has 1 uninsulated wire loop jumper (see above) and 3 uninsulated wires. The Ground wire is designated with black shrink wrap. **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 the following 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:

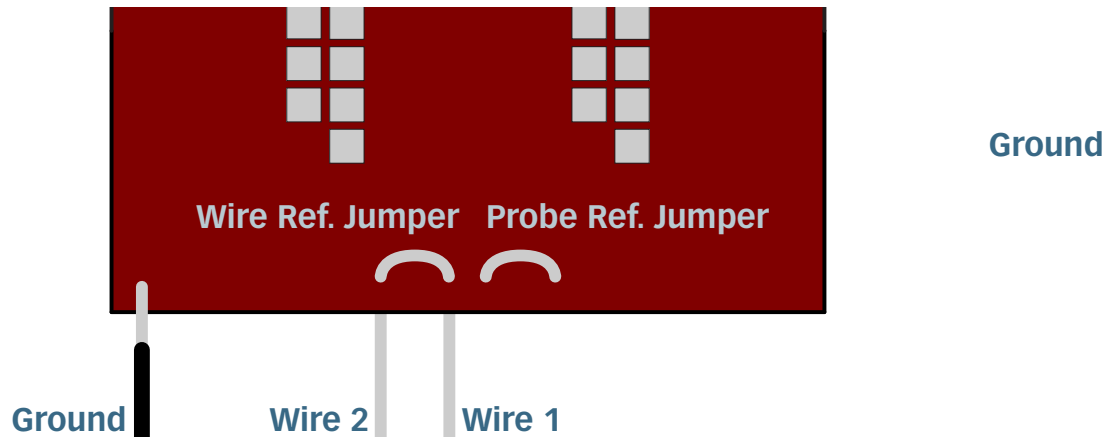
1. **Keep all external wires separate.**
2. Connector channels R1 and R2 connect to the probe reference (if your probe has one).

**To use only an external reference,** follow these instructions:

1. **Cut Wire 1** (furthest from the Ground wire).
2. **Cut the Wire Reference Jumper.** Channels R1 and R2 now serve as the external reference.

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

## Reference Channel Configuration (3 wires, 2 jumpers)



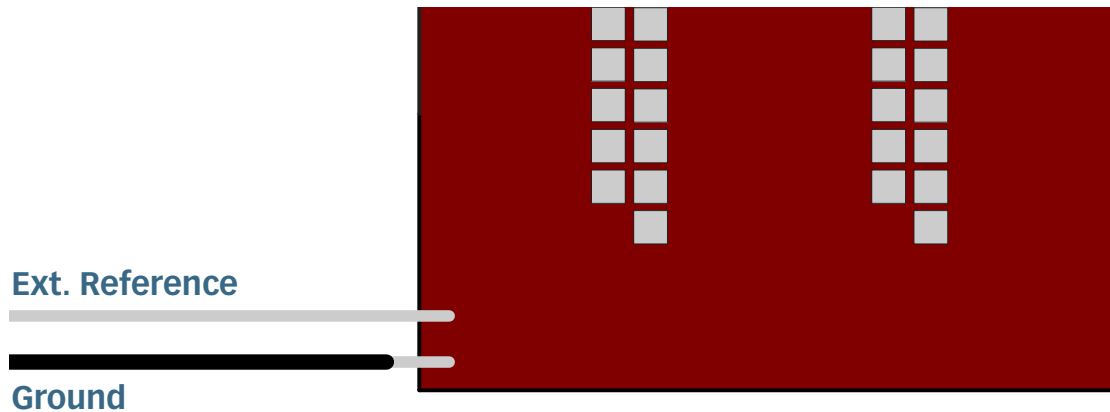
The HC32 package has 2 wire jumpers (see above). Wire 1 and Wire 2 correspond to the R1 and R2 pins respectively on the Omnetics connector. Depending on how these loops are cut, different reference channel configurations can be obtained. **Please read fully before making your desired changes - it may 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)



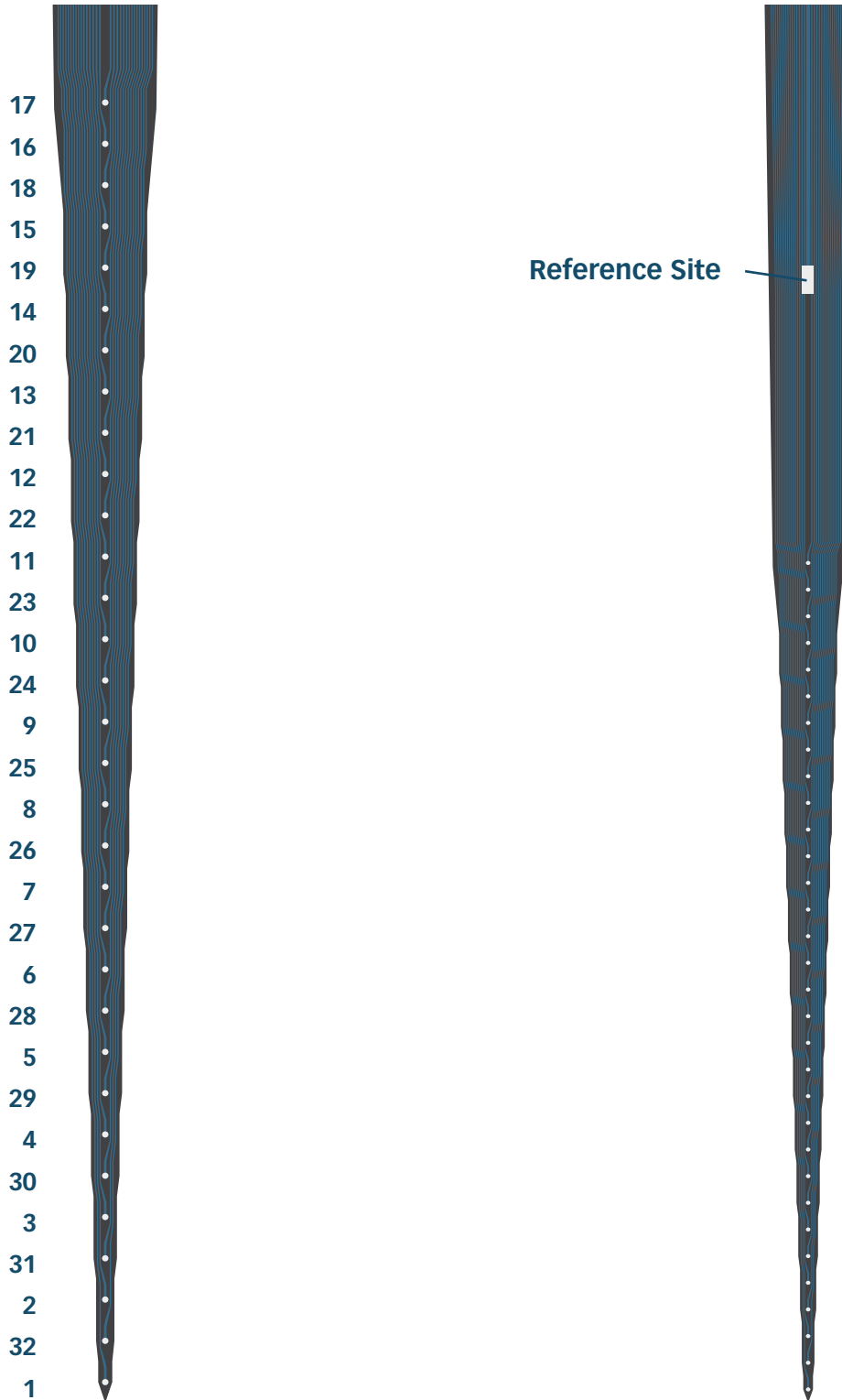
**IMPORTANT:** Check our catalog to see if your probe model has a probe reference (PR) site.

**If your design has a PR site,** and you did not request that the PR site be disconnected:

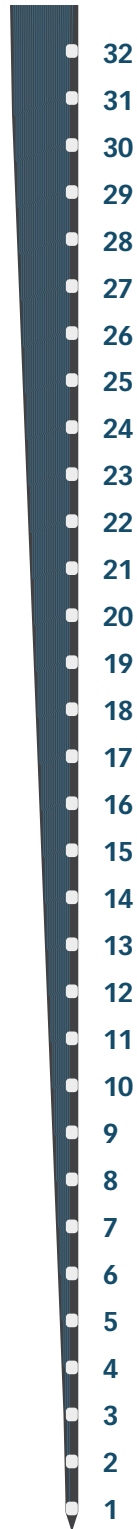
1. Cut the External Reference wire
2. Make sure that the PR site is completely implanted



A1x32

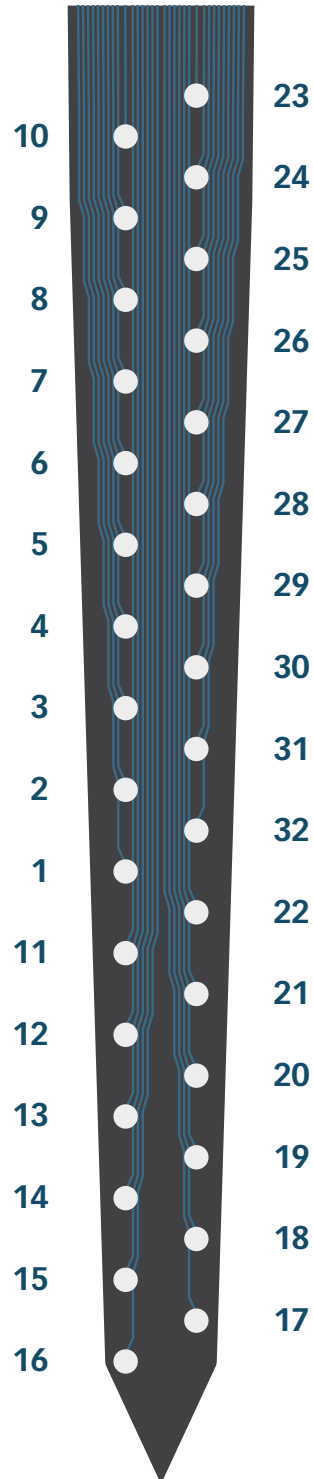


## A1x32-Edge





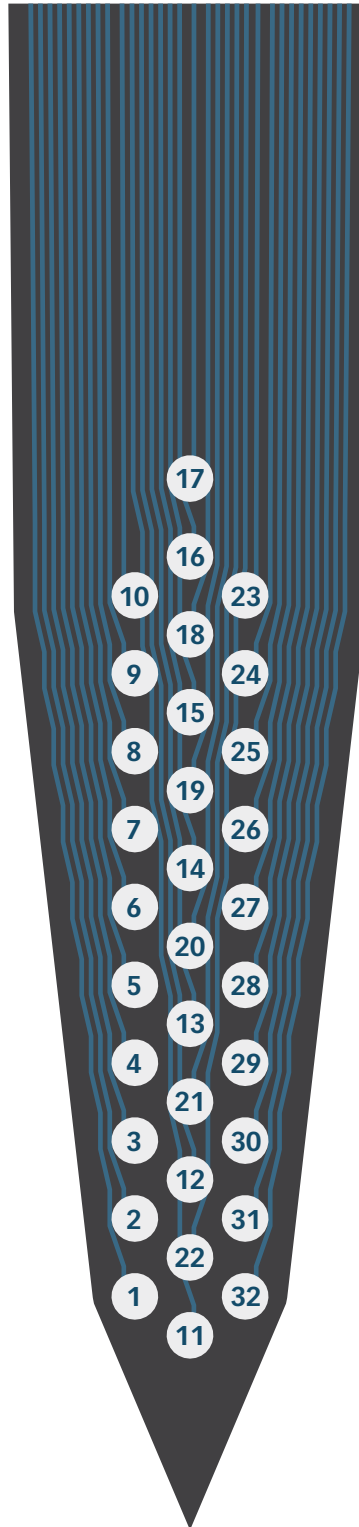
## A1x32-Poly2



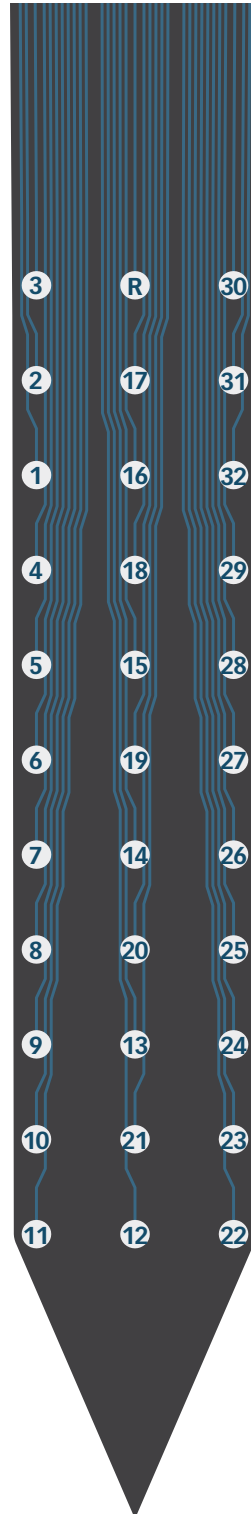




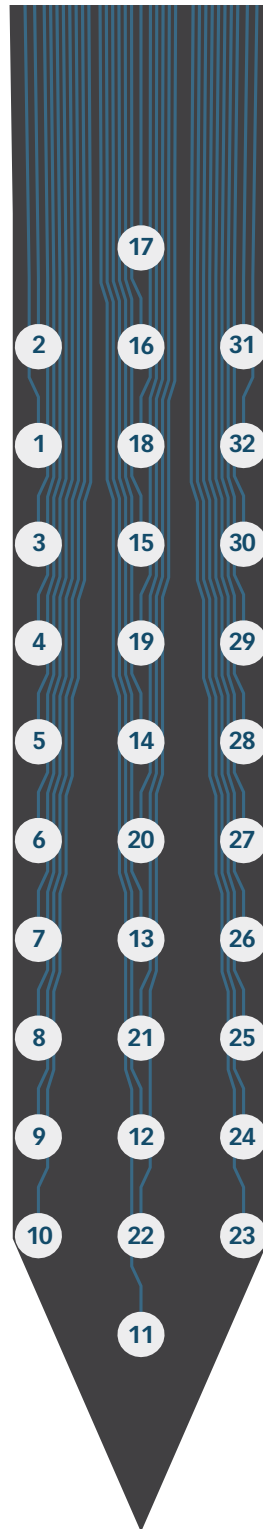
A1x32-Poly3-5mm-25s-177  
A1x32-Poly3-10mm-25s-177



A1x32-Poly3-6mm-50-177

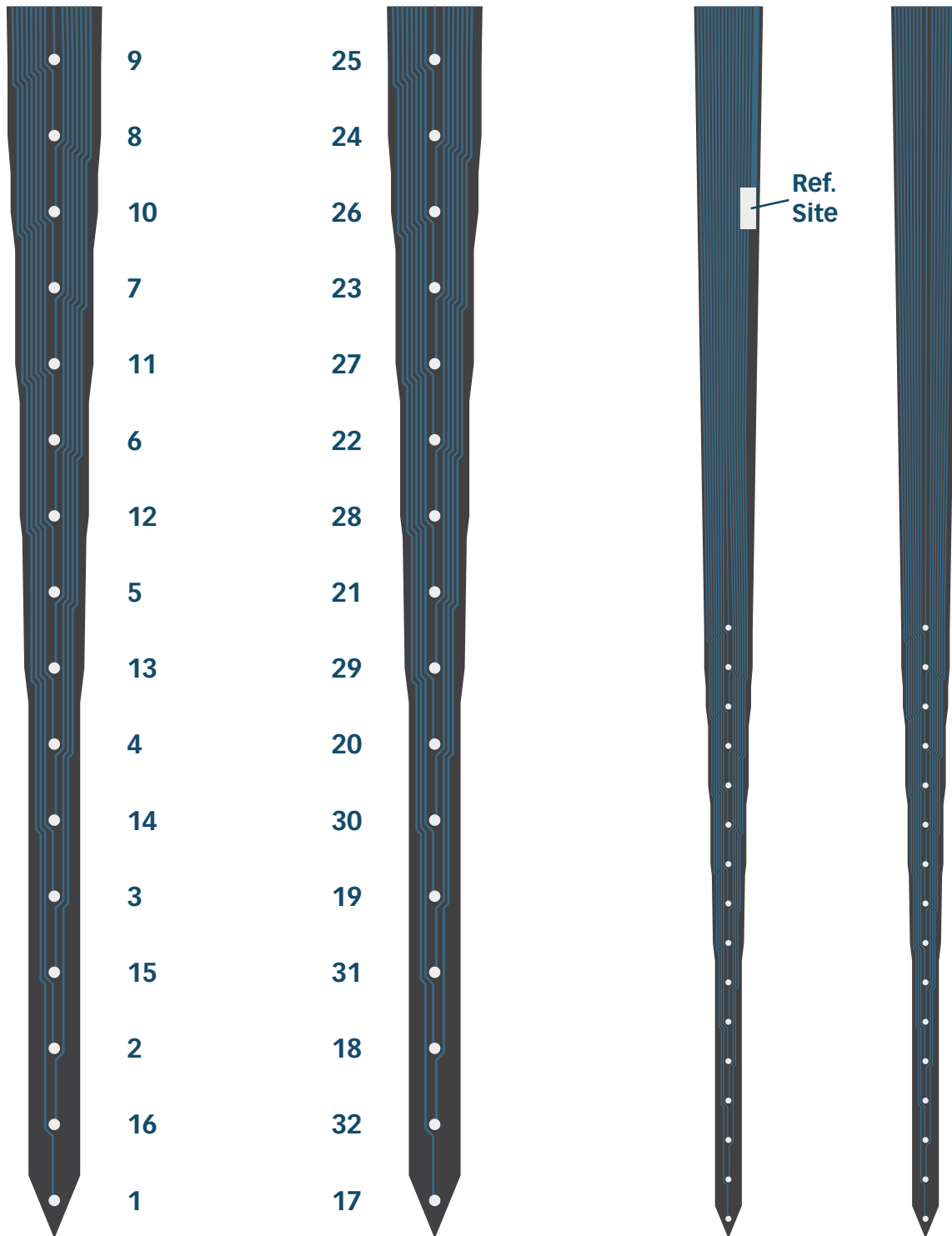


A1x32-Poly3-10mm-50-177

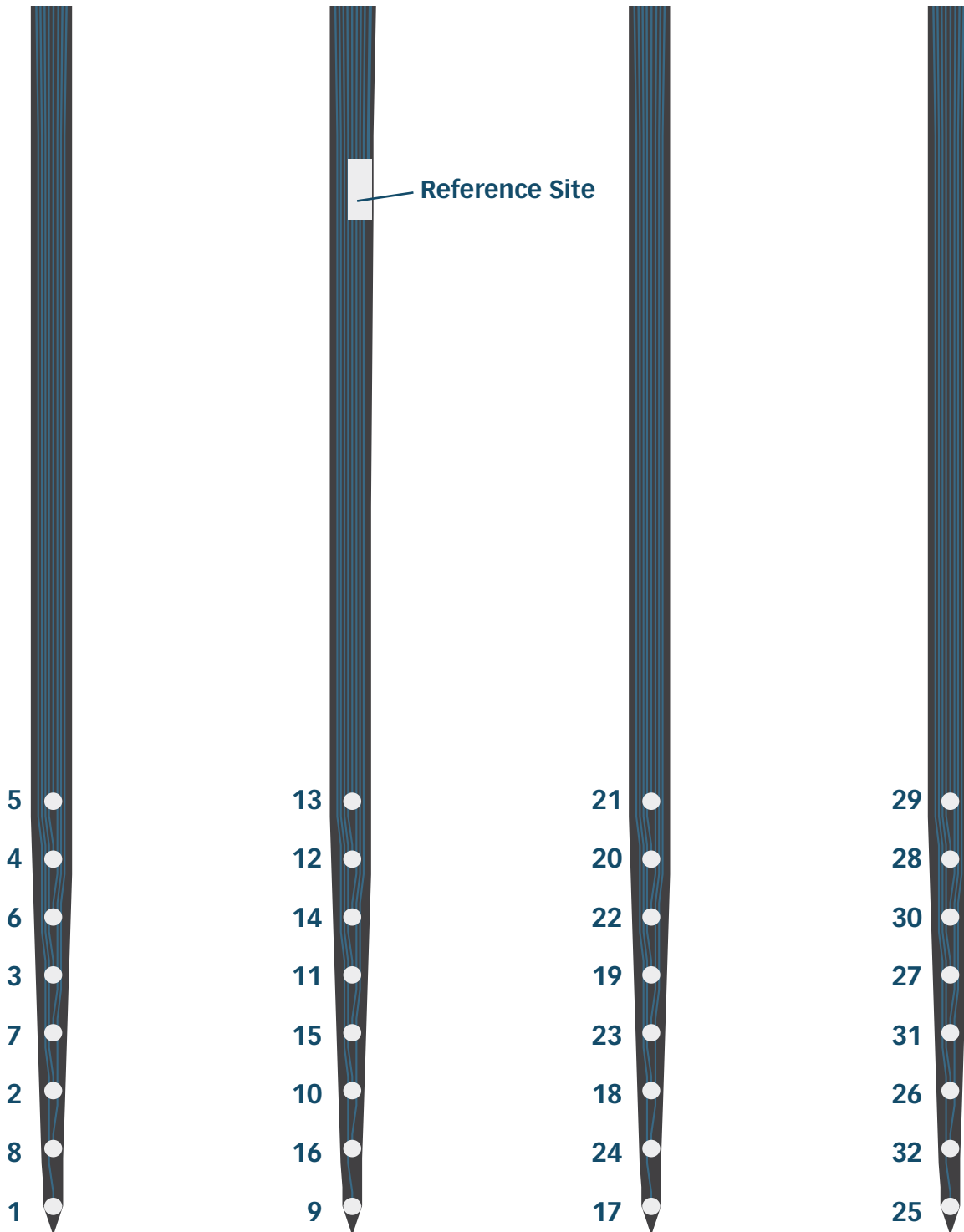




## A2x16

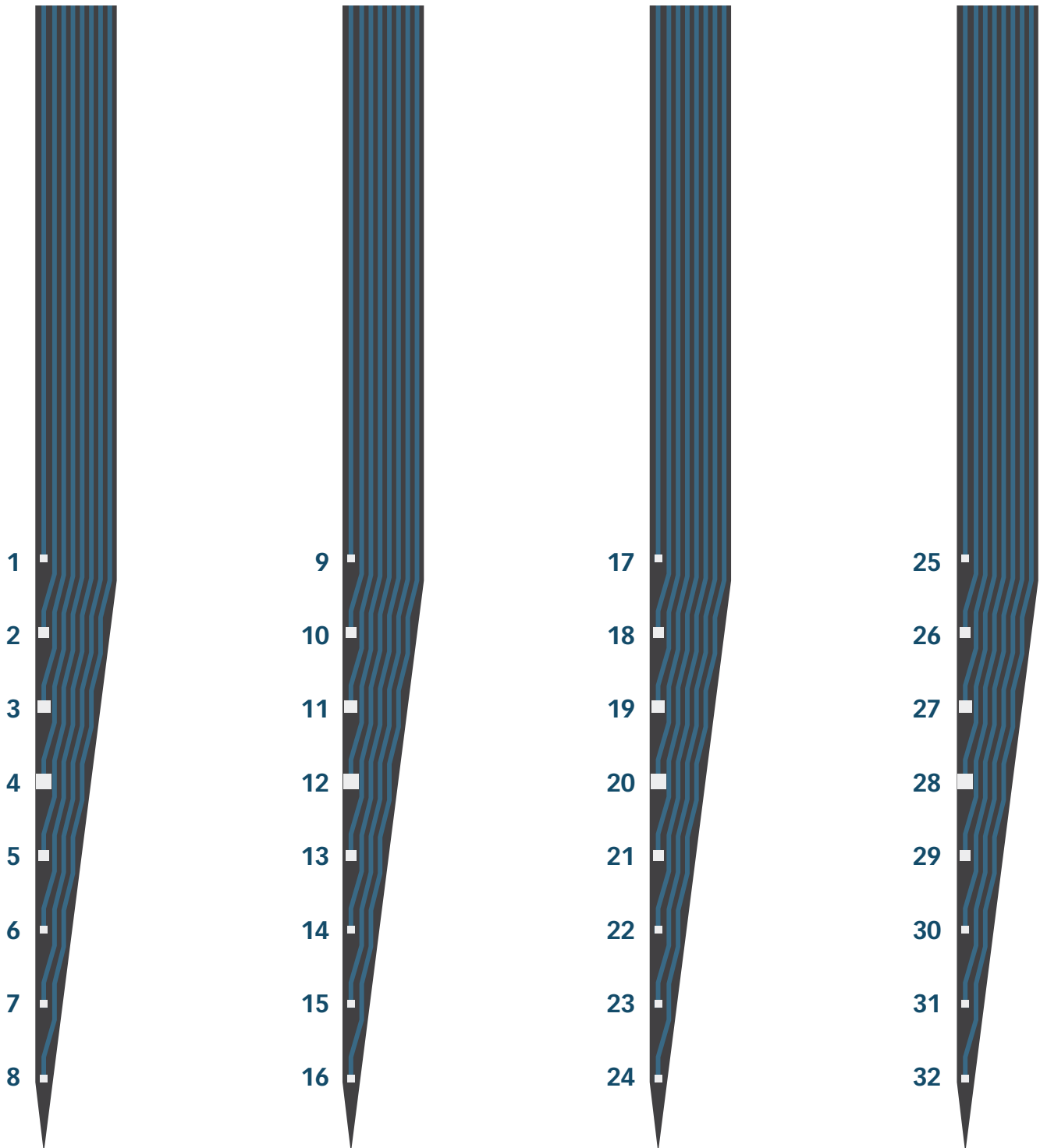


### A4x8



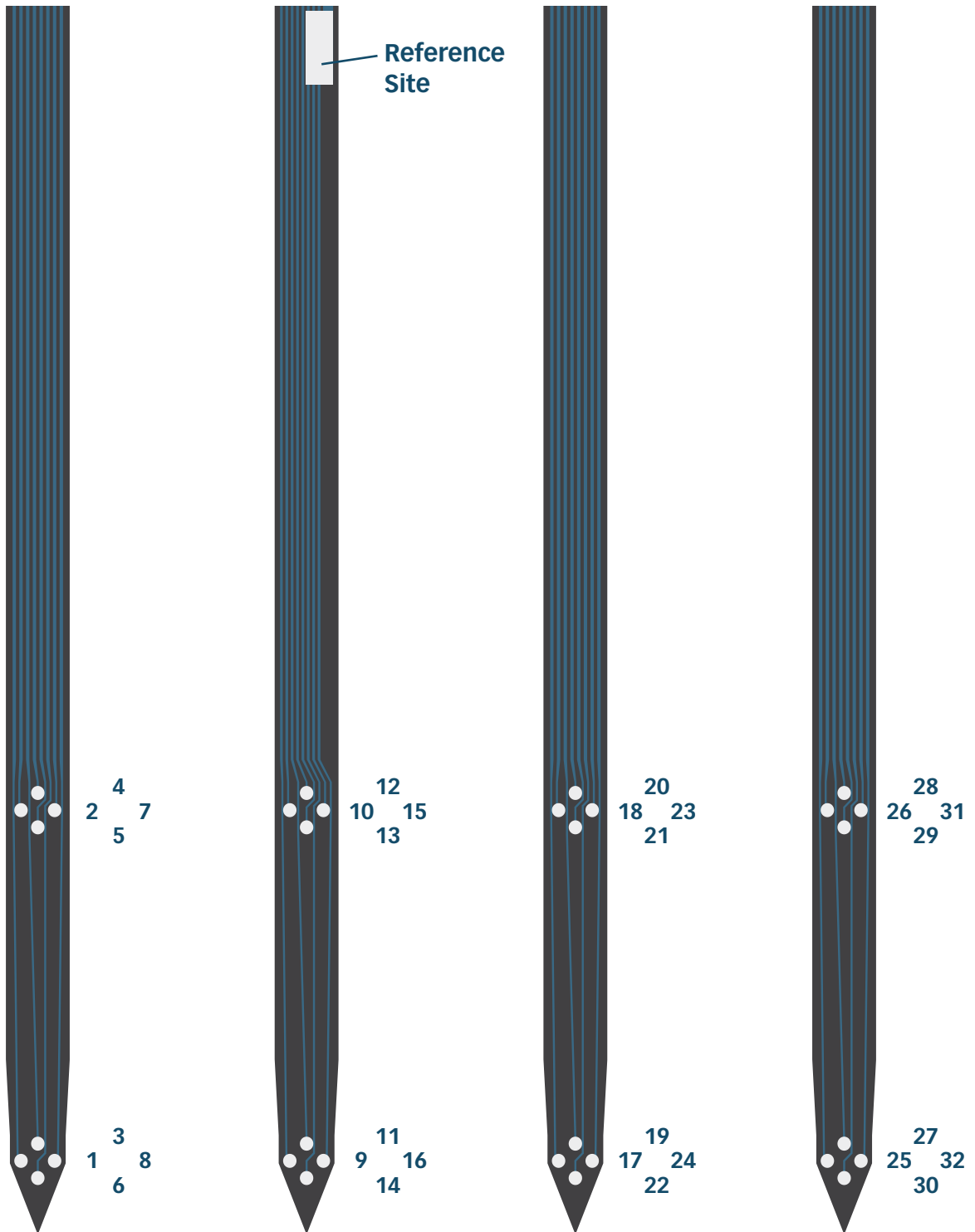


## A4x8-10mm-50-200-VAR



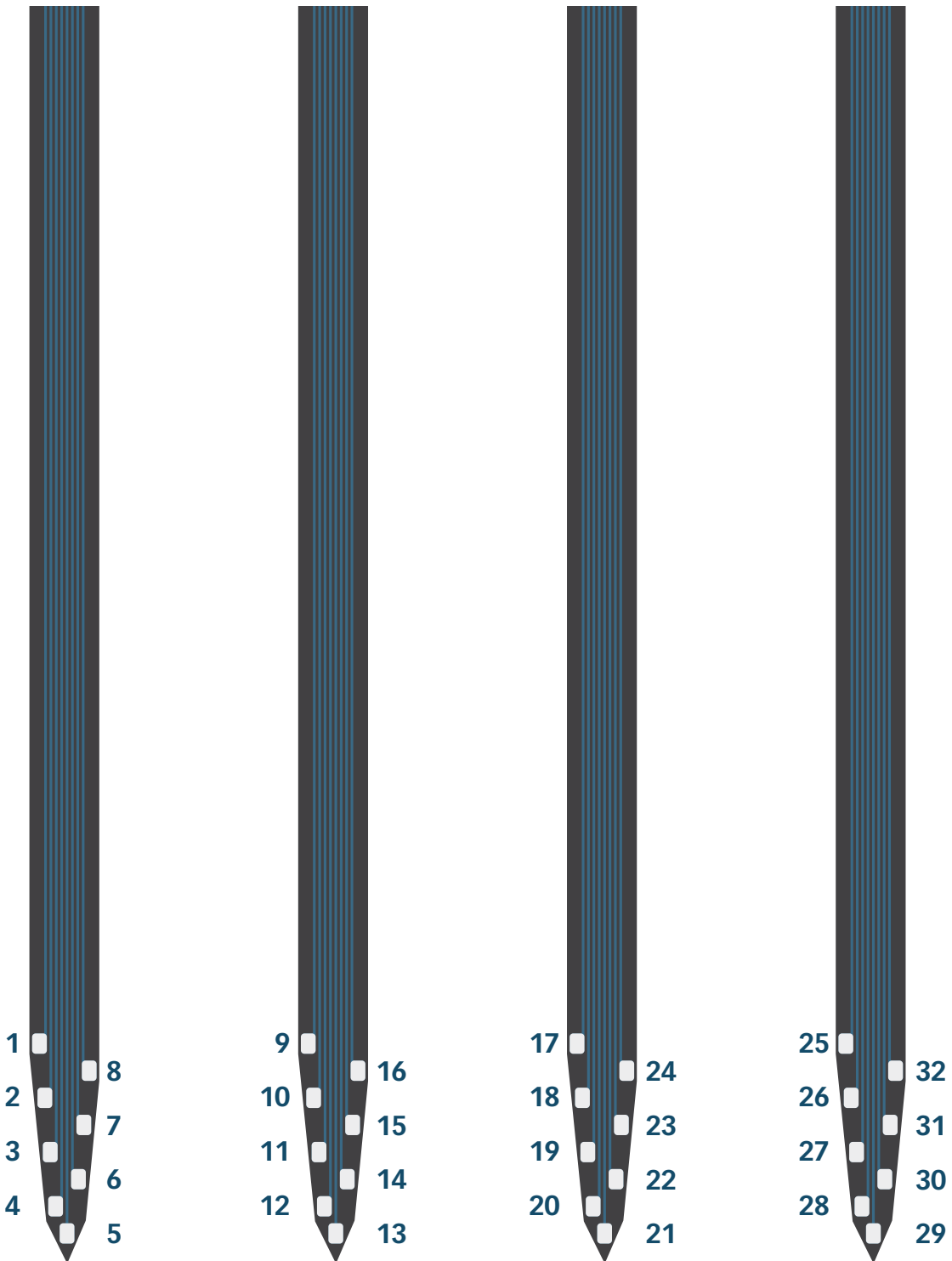


## A4x2-tet





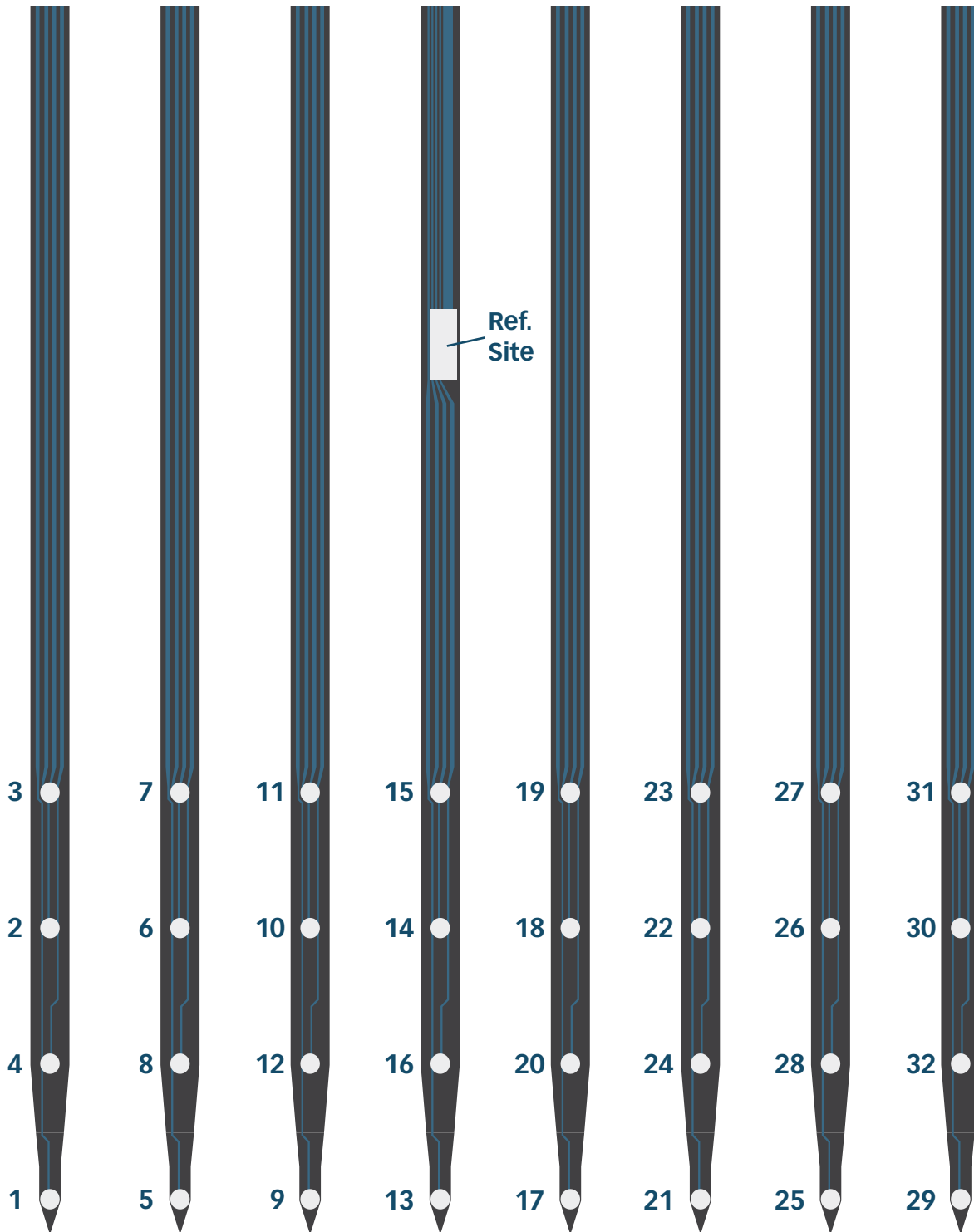
## Buzsaki32







## A8x4





## A8x1-tet

