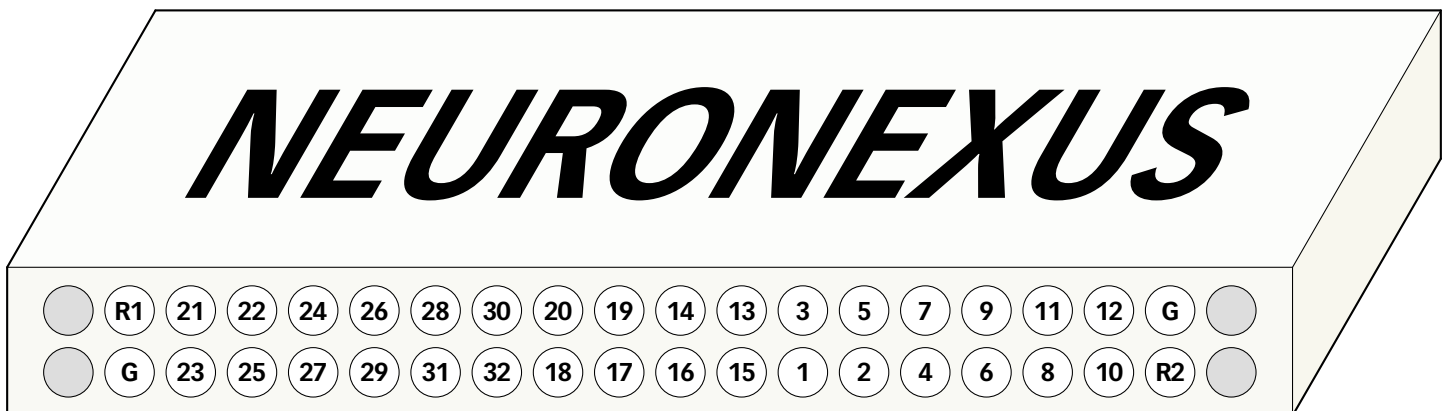


### CM32 Connector

p.1



**NOTE:** Print may vary on the CM32 connector.

- Versions with one side with "Omnetics" printed and one blank side: the "Omnetics" side is oriented up
- Versions with one side with "NeuroNexus" printed and one side with "Omnetics" and a batch number printed: the "NeuroNexus" side is oriented up

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

### SPECIFICATIONS

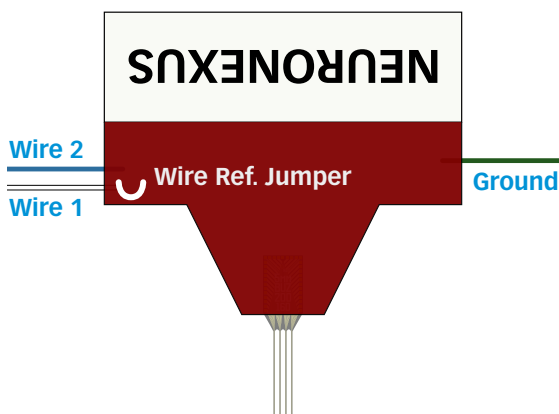
**Connector** Omnetics 36 Position Dual Row Male Nano Miniature Connector (4 guideposts)

**Mating Connector** Omnetics 36 Position Dual Row Female Nano Miniature Connector (4 guideposts)

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

### Reference Channel Configuration (Gen. 4)

p.2



The CM32 Gen. 4 package has 1 insulated wire loop jumper (see above) and 3 colored insulated wires. The Ground wire is green. **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. **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.

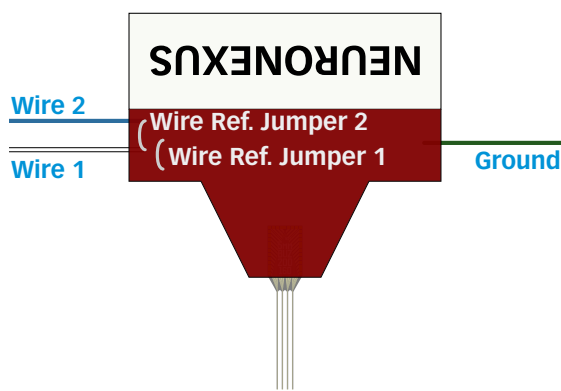
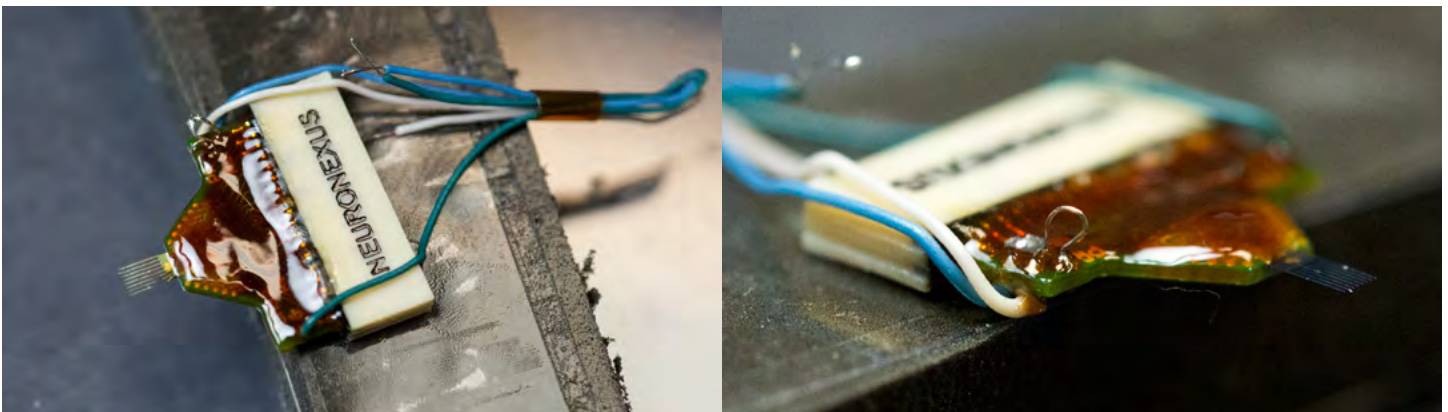
**To use 2 external reference sources,** follow these instructions:

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 (Gen. 3)

p.3



The CM32 Gen. 3 package has 2 bare wire loop jumpers and 3 colored insulated wires. The Ground wire is green.

**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 (Gen. 2)

p.4



The CM32 Gen. 2 package has no wire loop jumpers (see above) and 2 bare wires, both located on one side of the package. 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:

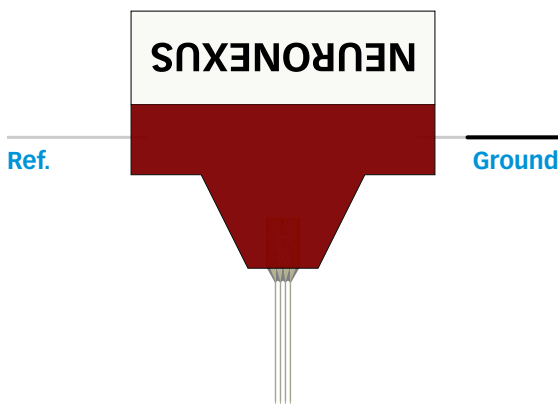
1. **Cut** the Reference wire (the Reference wire does *not* have black shrink wrap)
2. Make sure that the PR site is completely implanted
3. Reference channels R1 and R2 function as the Probe Reference

**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.

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

**Reference Channel Configuration (Gen. 1)**

p.5



The CM32 Gen. 1 package has no wire loop jumpers (see above) and 2 bare wires, located on opposite sides of the package. 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

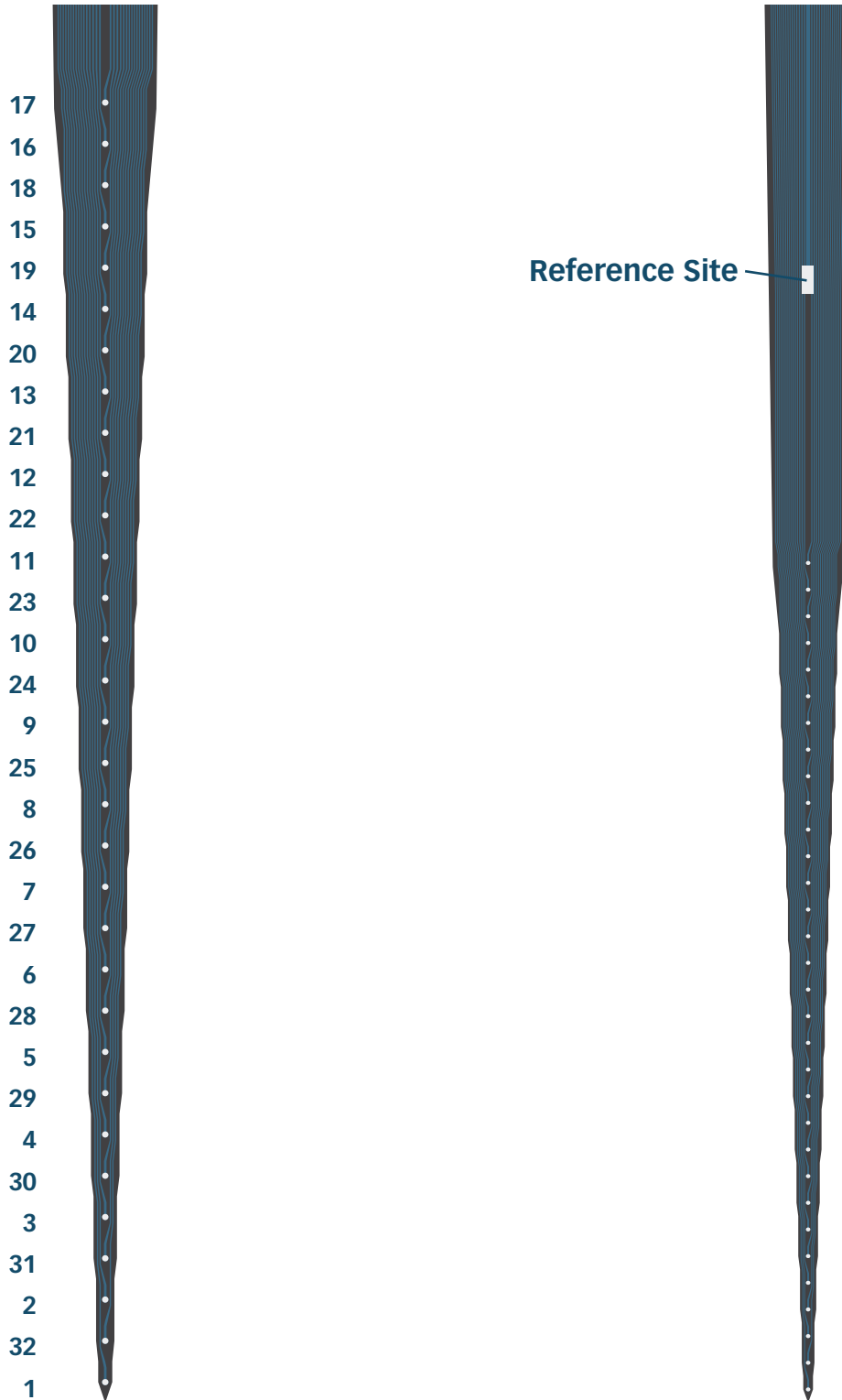
**If your probe does not have a PR site,** connect the Reference wire to your external reference source. Reference channels R1 and R2 function as the External Reference.





A1x32

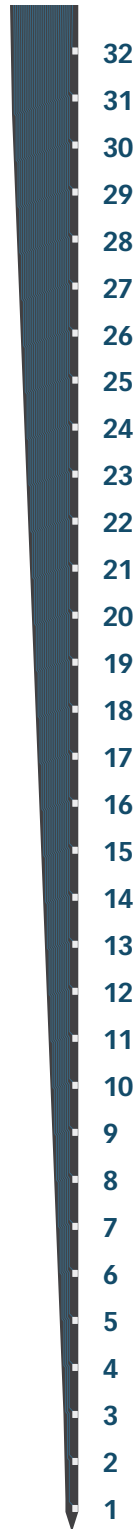
p.6





A1x32-Edge

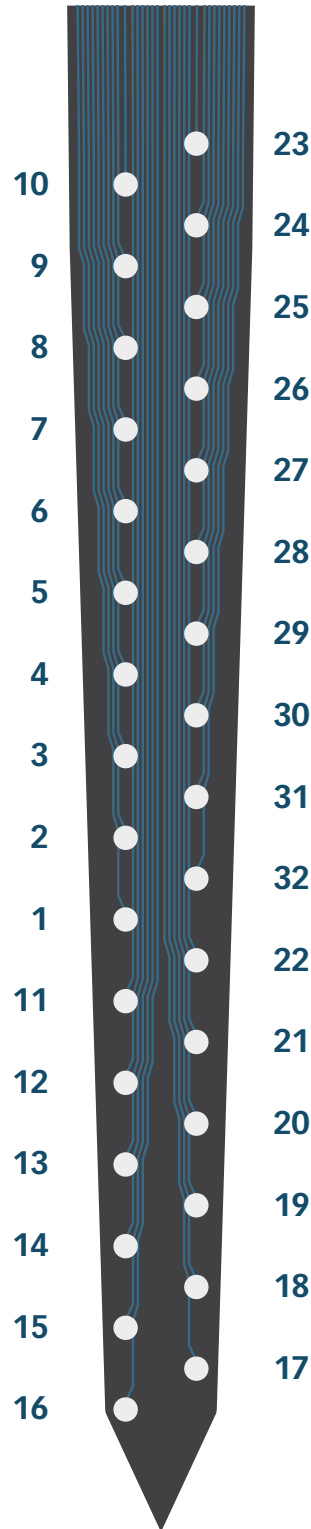
p.7





A1x32-Poly2

p.8

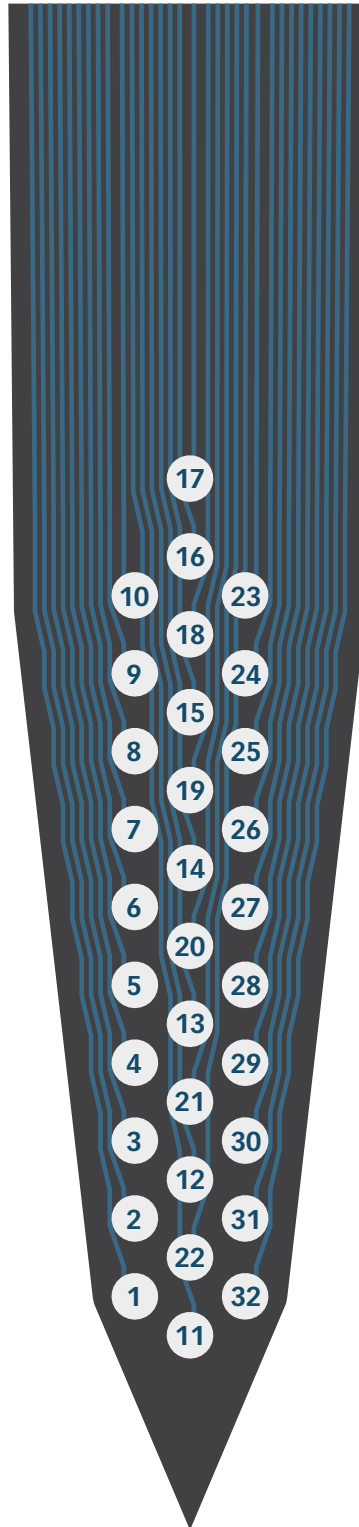






A1X32-Poly3-5mm-25s-177  
A1X32-Poly3-10mm-25s-177

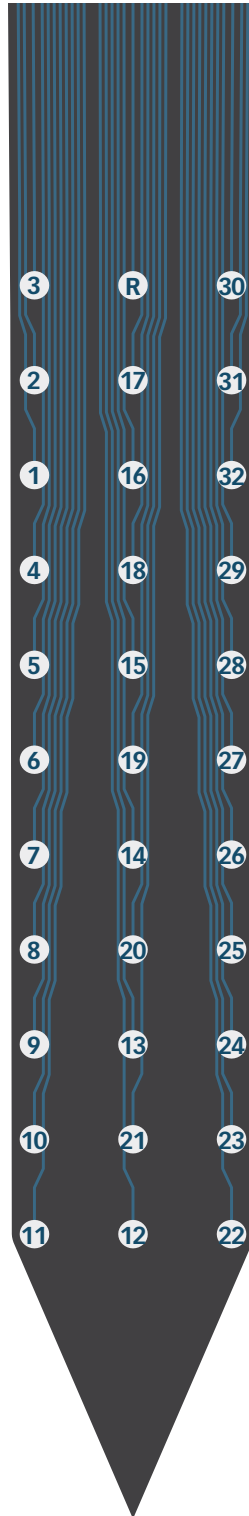
p.9





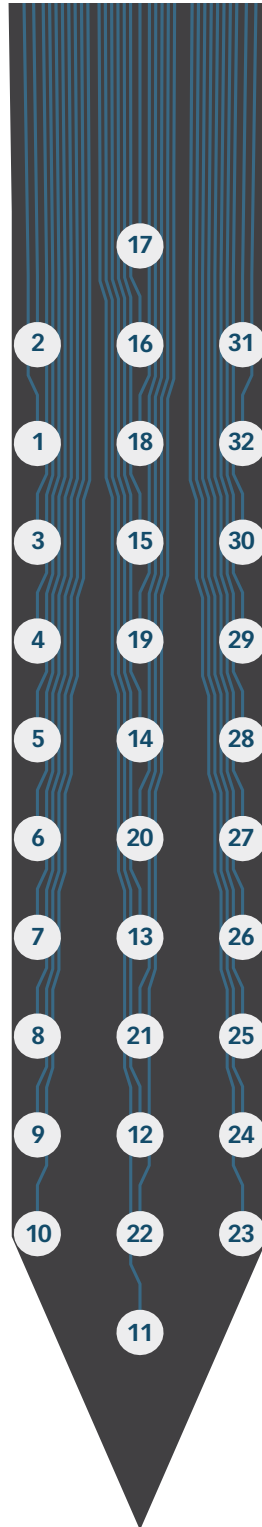
A1x32-Poly3-6mm-50-177

p.10



A1x32-Poly3-10mm-50-177

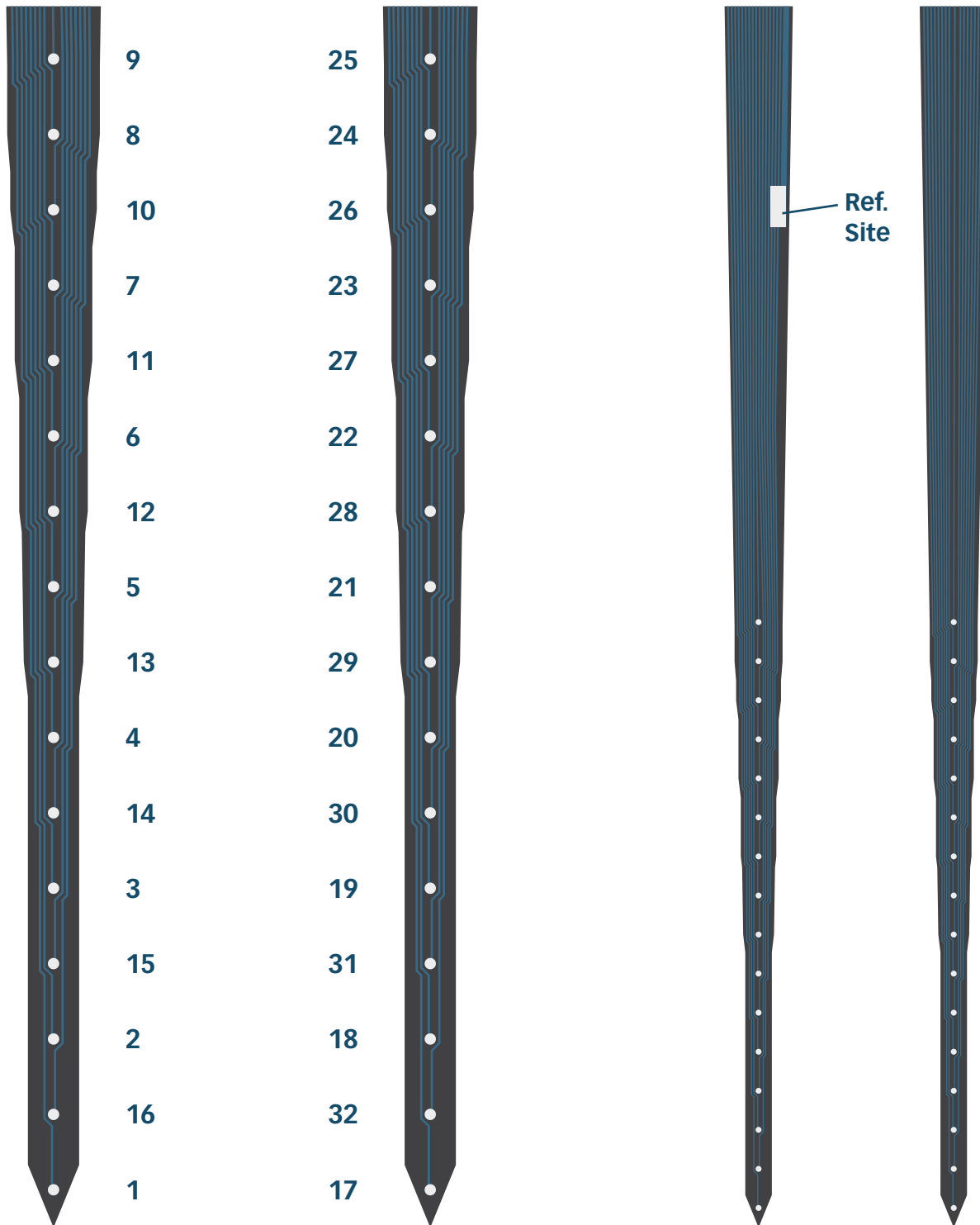
p.11





A2x16

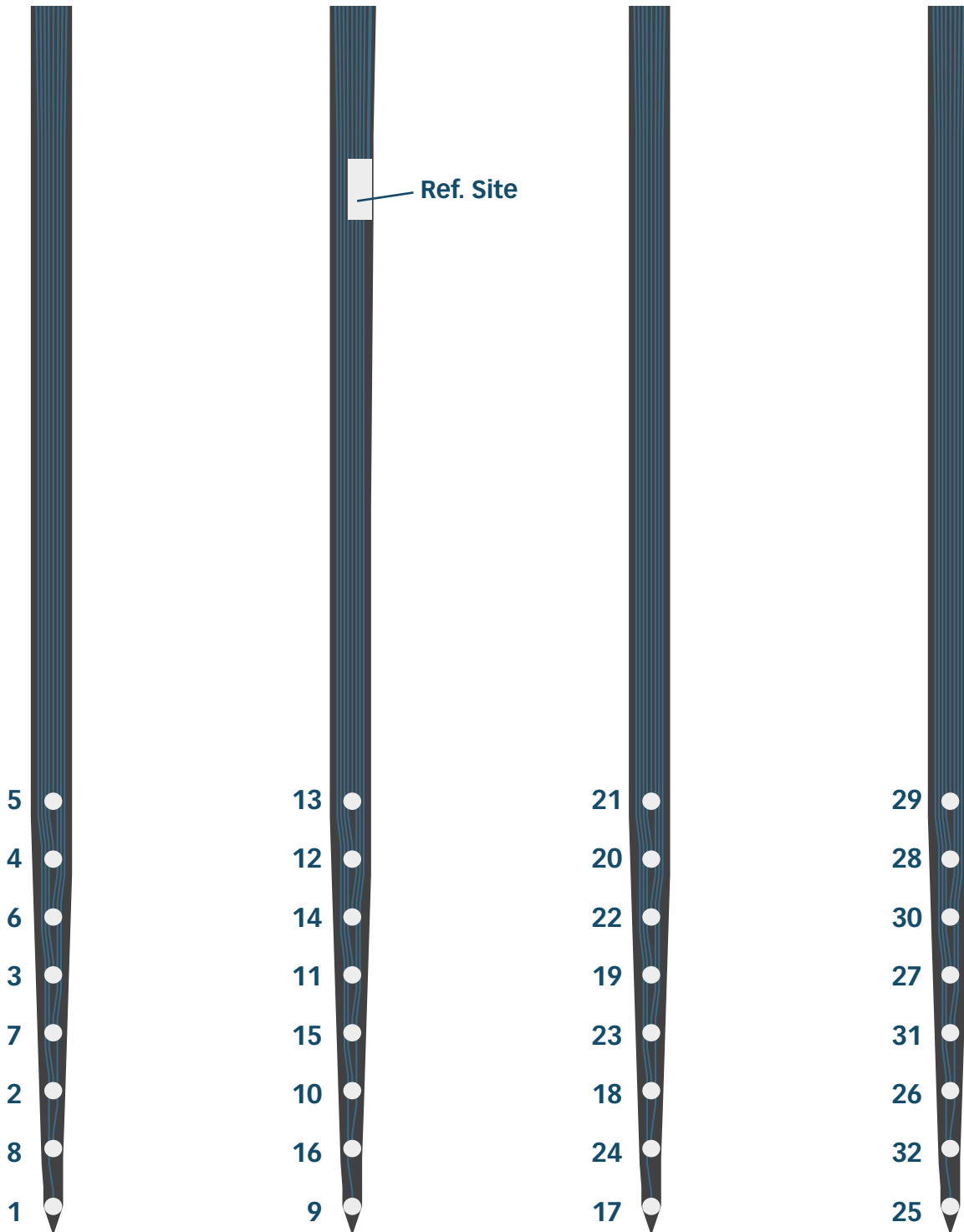
p.12





A4x8

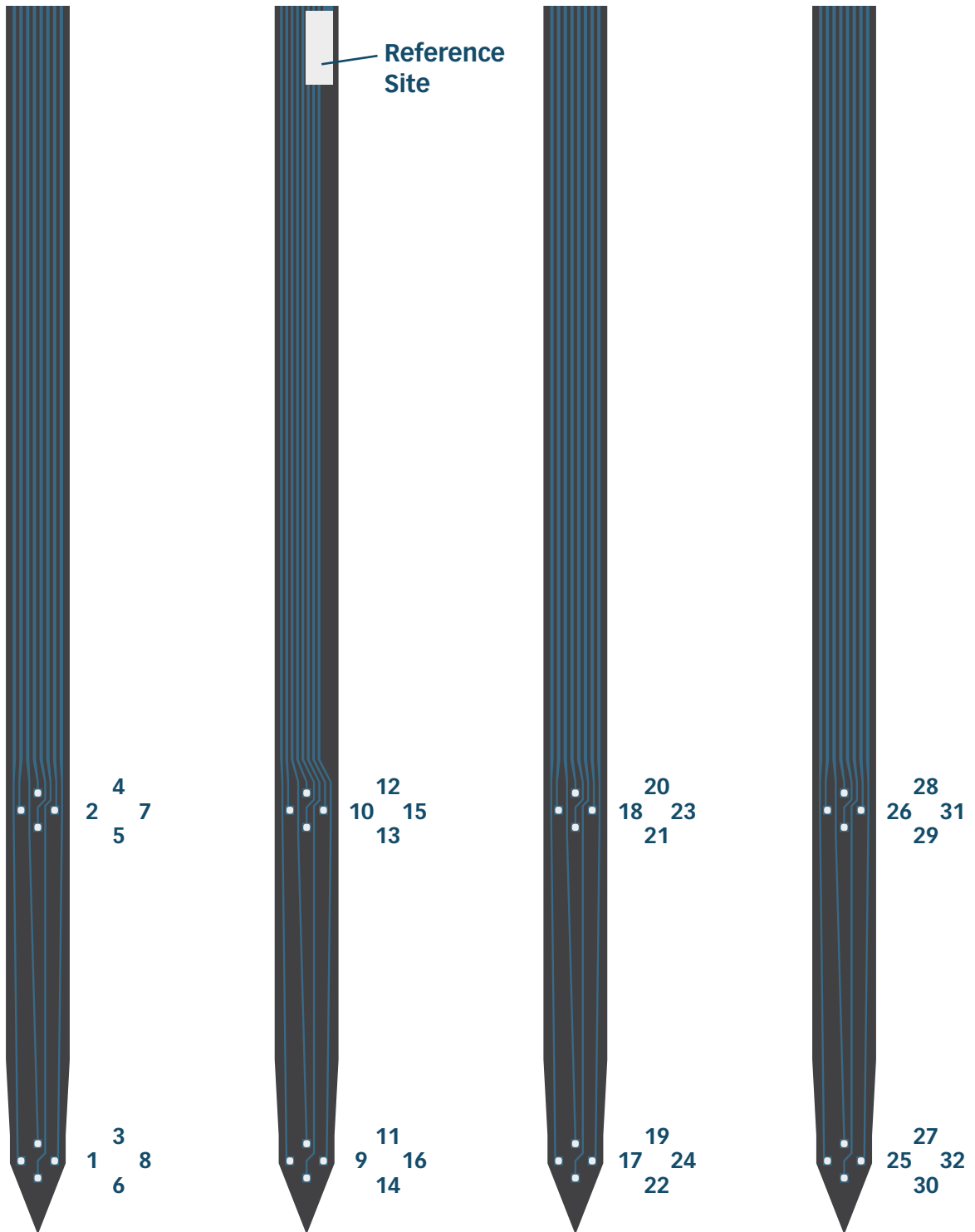
p.13





A4x2-tet

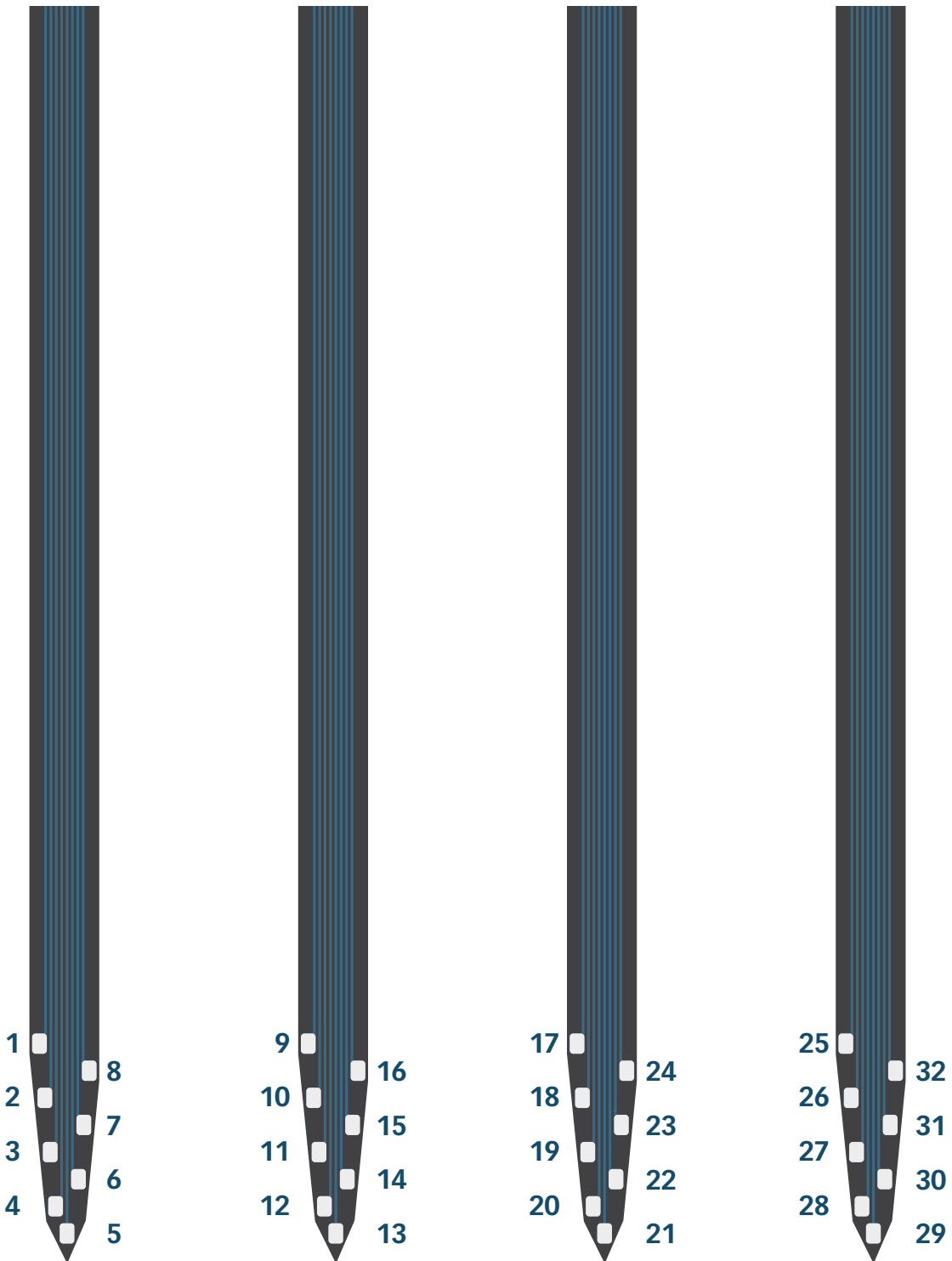
p.14





Buzsaki32

p.15

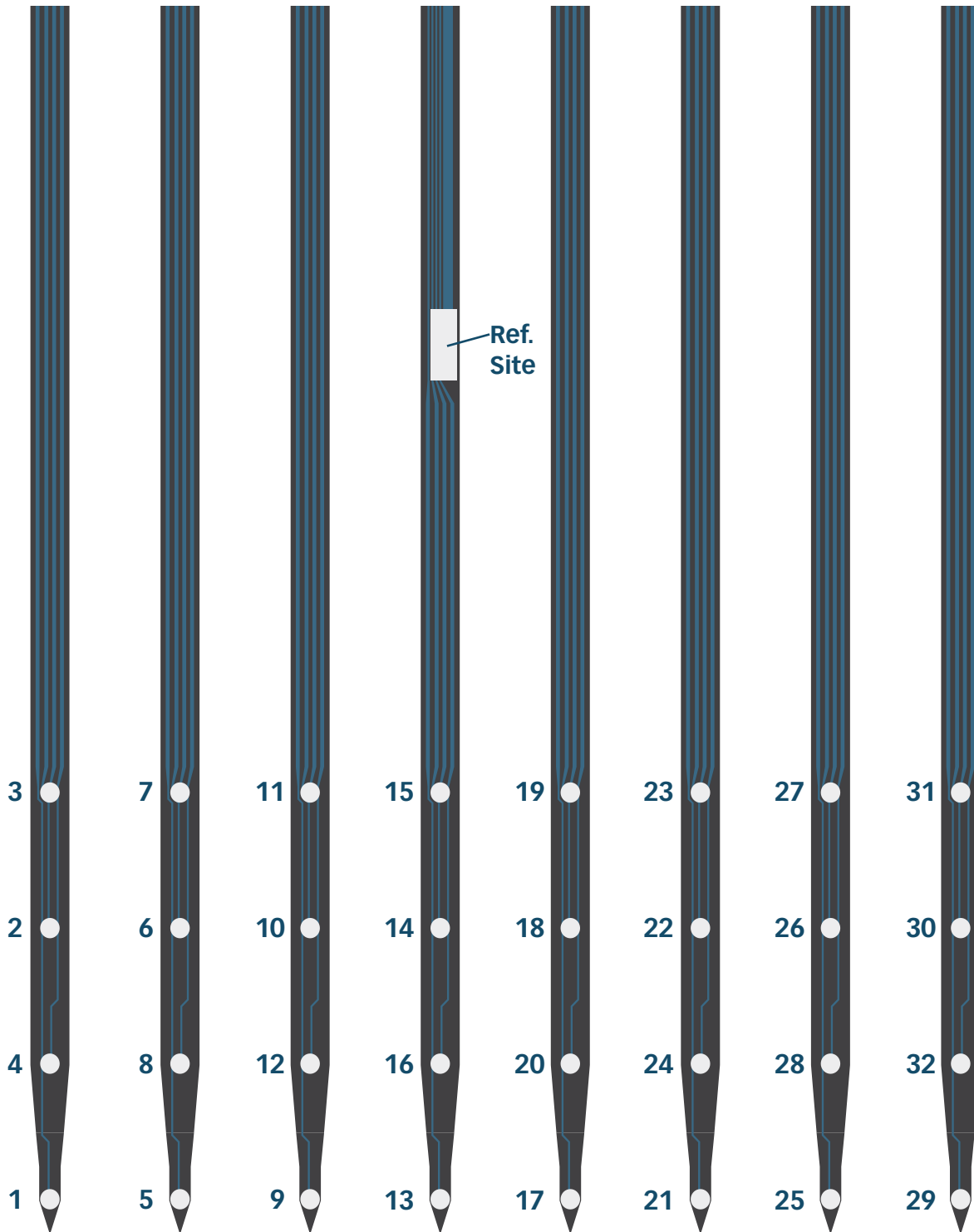






A8x4

p.16





### A8x1-tet

p.17

