NeuroNexus

WIRING CONFIGURATION

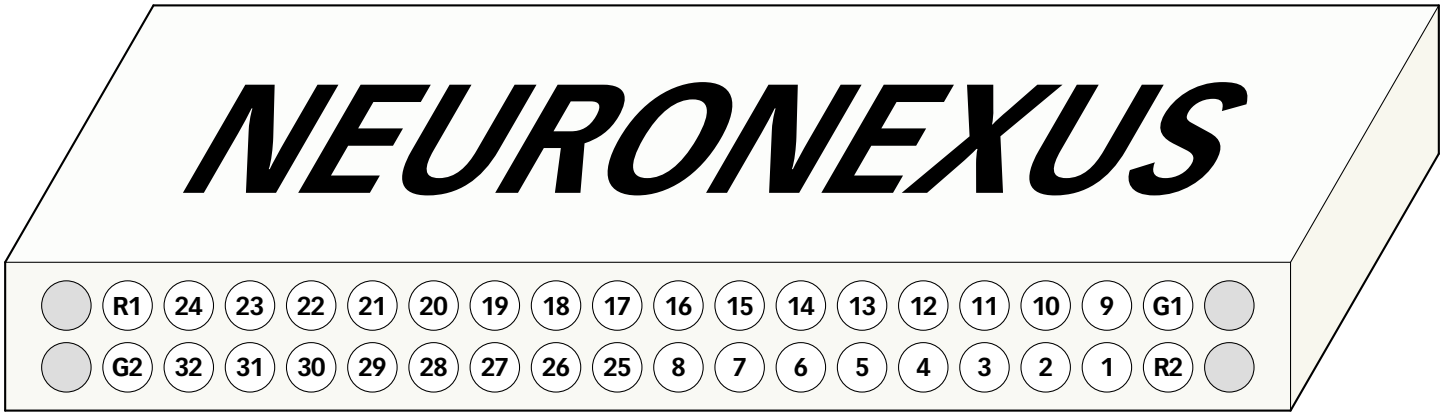
H32 ECoG Package
Updated January 3, 2014

This wiring guide will help you:

1. Identify the exact probe package you are using, and
2. Help you understand and configure the reference channel wiring specific to your package

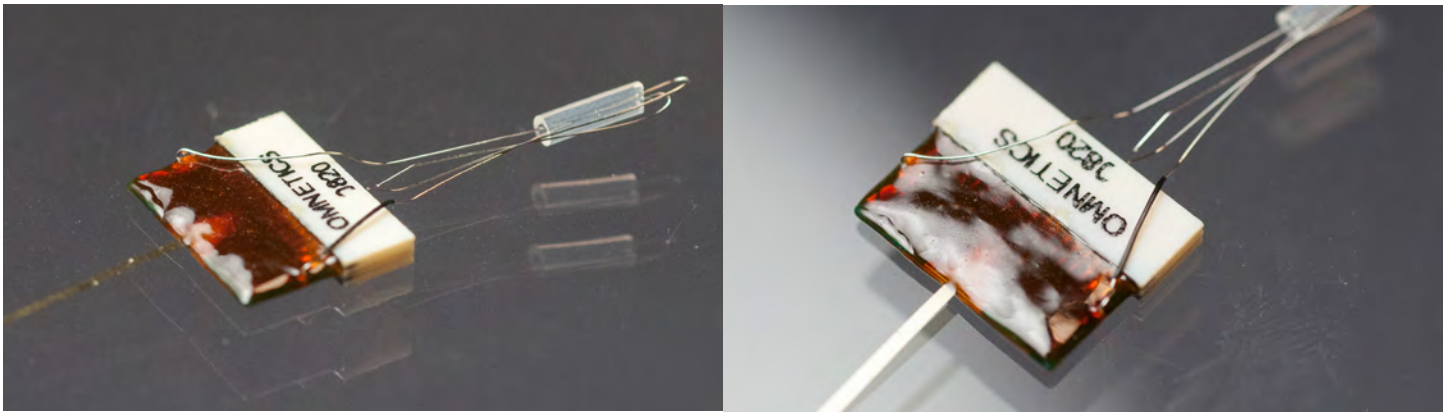
The H32 ECoG Pin Out diagram below applies for all wiring configurations. You will need to turn back to this page to check the reference channel locations.

NOTE: H32 Standard probes utilize a different pin out map, but the reference pin out locations and configurations are the same.



NeuroNexus Technologies, Inc. ©2021 | 5200 S. State Street, Suite 200, Ann Arbor, Michigan USA
Telephone: +1.734.913.8858 | Fax: +1.734.786.0069 | support@neuronexus.com

Reference Channel Configuration (Gen. 1)



The H32 Gen. 1 package has no wire loop jumpers (see above) and 2 bare wires. The Ground wire is designated with black shrink wrap.

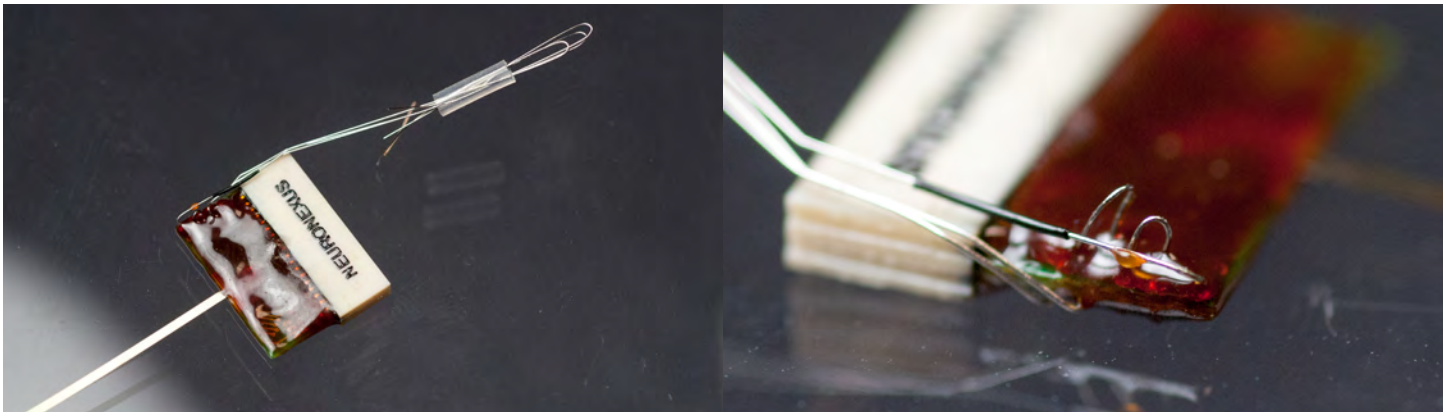
IMPORTANT: Check our catalog to see if your probe model has a probe reference (PR) site.
If your design has a PR site, and you plan on using it:

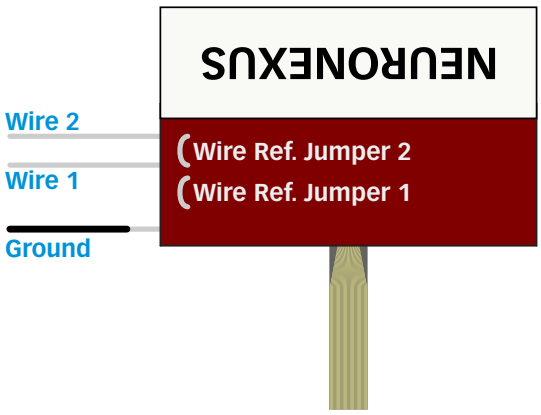
1. **Cut** the Reference wire (the Reference wire does *not* have black shrink wrap)
2. Make sure that the PR site is completely implanted
3. Reference channels R1 and R2 function as the Probe Reference

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.

NeuroNexus Technologies, Inc. ©2021 | 5200 S. State Street, Suite 200, Ann Arbor, Michigan USA
Telephone: +1.734.913.8858 | Fax: +1.734.786.0069 | support@neuronexus.com

Reference Channel Configuration (Gen. 2)





The H32 Gen. 2 package has 2 bare wire loop jumpers (see above) and 3 bare 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 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
3. 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:

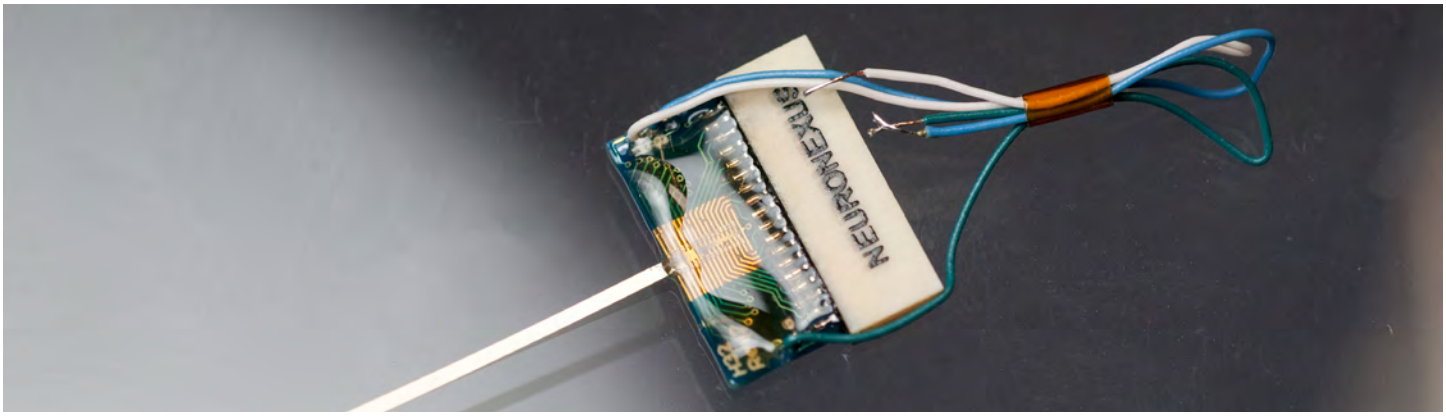
1. Cut Wire Reference Jumper 1
2. Tie Wire 1 and Wire 2 together. Channels R1 and R2 both serve as the external reference.

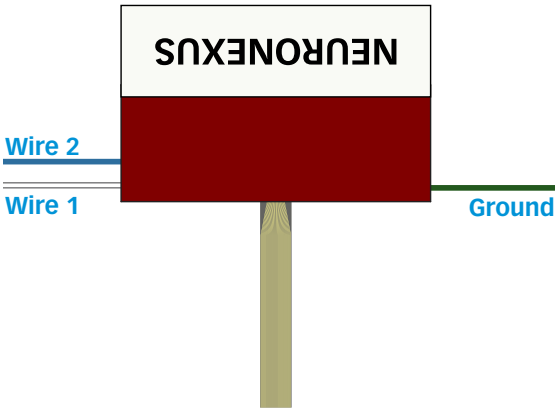
To use 2 external reference sources, follow these instructions:

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

NeuroNexus Technologies, Inc. ©2021 | 5200 S. State Street, Suite 200, Ann Arbor, Michigan USA
Telephone: +1.734.913.8858 | Fax: +1.734.786.0069 | support@neuronexus.com

Reference Channel Configuration (Gen. 3)





The H32 Gen. 3 package has no wire loop jumpers and 3 colored insulated wires. The Ground wire is green.

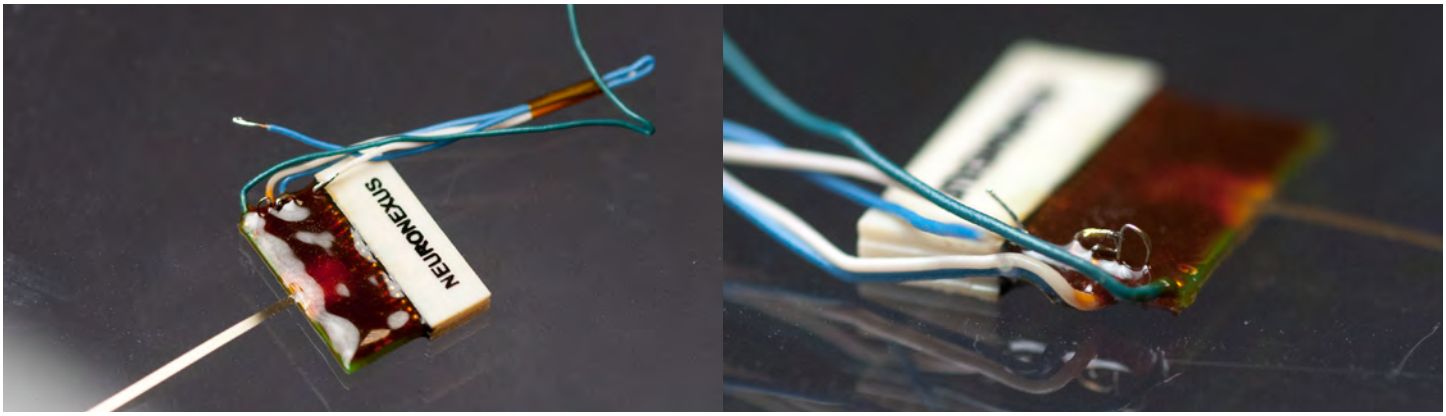
IMPORTANT: Check our catalog to see if your probe model has a probe reference (PR) site.
If your design has a PR site, and you plan on using it:

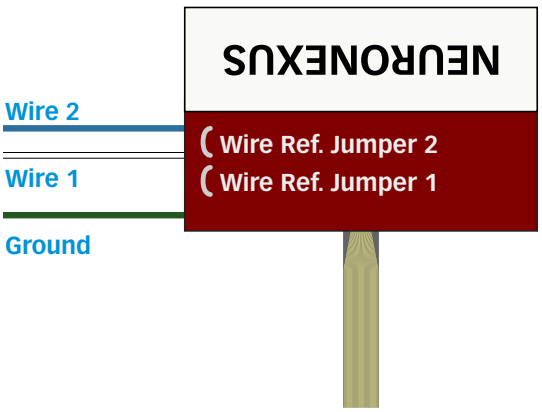
1. **Cut** Wires 1 and 2
2. Make sure that the PR site is completely implanted
3. Reference channels R1 and R2 function as the Probe Reference

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

NeuroNexus Technologies, Inc. ©2021 | 5200 S. State Street, Suite 200, Ann Arbor, Michigan USA
Telephone: +1.734.913.8858 | Fax: +1.734.786.0069 | support@neuronexus.com

Reference Channel Configuration (Gen. 4)





The H32 Gen. 4 package has 2 bare wire loop jumpers (see above) and 3 colored insulated wires. The Ground wire is green. Wires 1 and 2 correspond to the Reference pins on the Omnetics connectors (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:

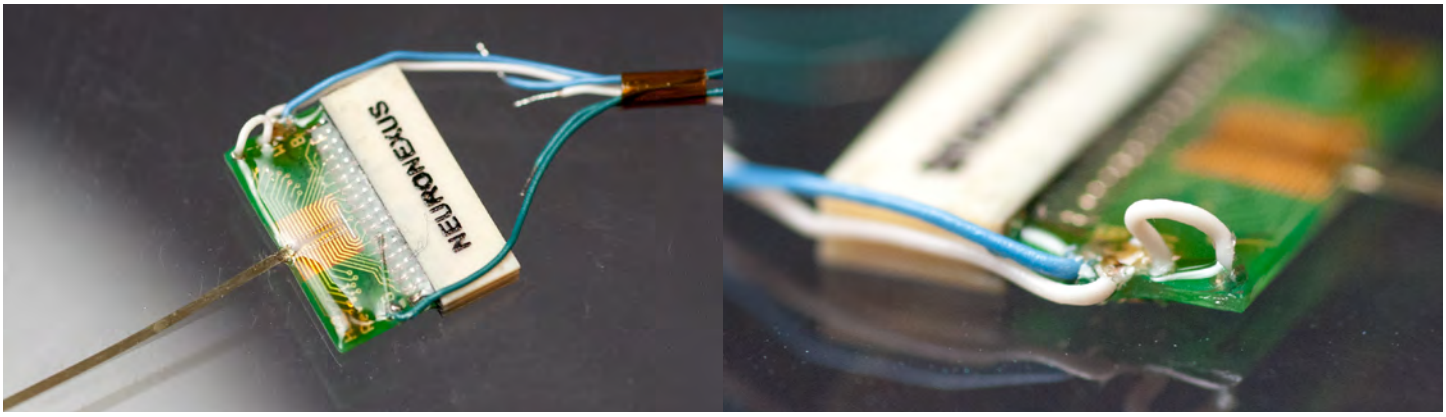
1. Cut Wire Reference Jumper 1
2. Tie Wire 1 and Wire 2 together. Channels R1 and R2 both serve as the external reference.

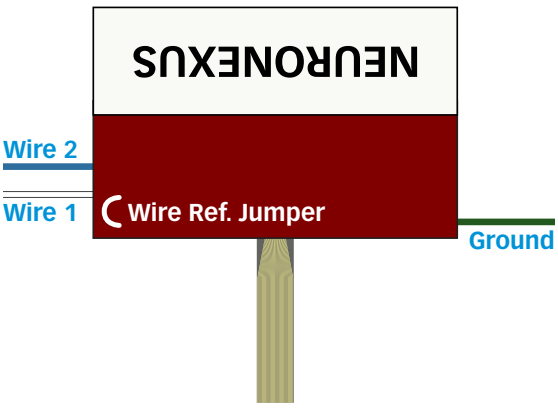
To use 2 external reference sources, follow these instructions:

1. Cut 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.

NeuroNexus Technologies, Inc. ©2021 | 5200 S. State Street, Suite 200, Ann Arbor, Michigan USA
Telephone: +1.734.913.8858 | Fax: +1.734.786.0069 | support@neuronexus.com

Reference Channel Configuration (Gen. 5)





The H32 Gen. 5 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.

NeuroNexus Technologies, Inc. ©2021 | 5200 S. State Street, Suite 200, Ann Arbor, Michigan USA
Telephone: +1.734.913.8858 | Fax: +1.734.786.0069 | support@neuronexus.com