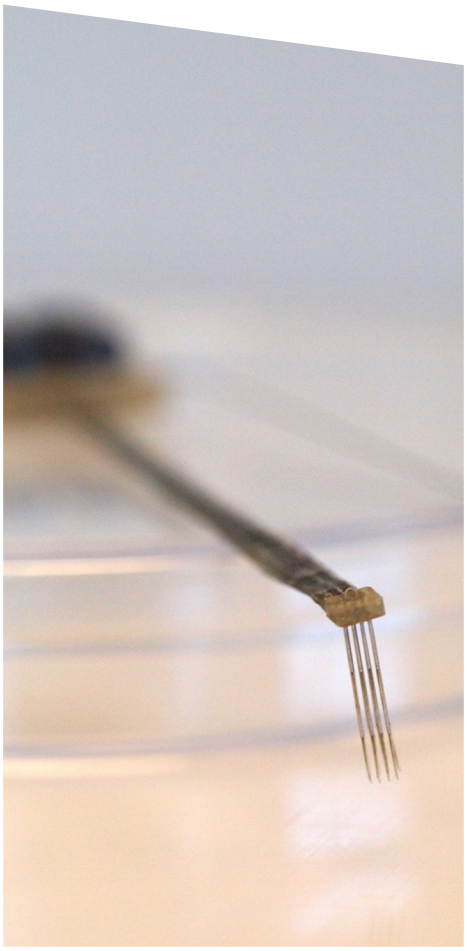
N-Form Electrode

3D configurable single-unit recordings across a volume of neurons over long-duration chronic experiments.

The N-Form® can be customized to a 3D configuration that reaches a large volume of neurons across layers and columns - with no additional cost or delivery time.

Primary features and benefits of the N-Form:

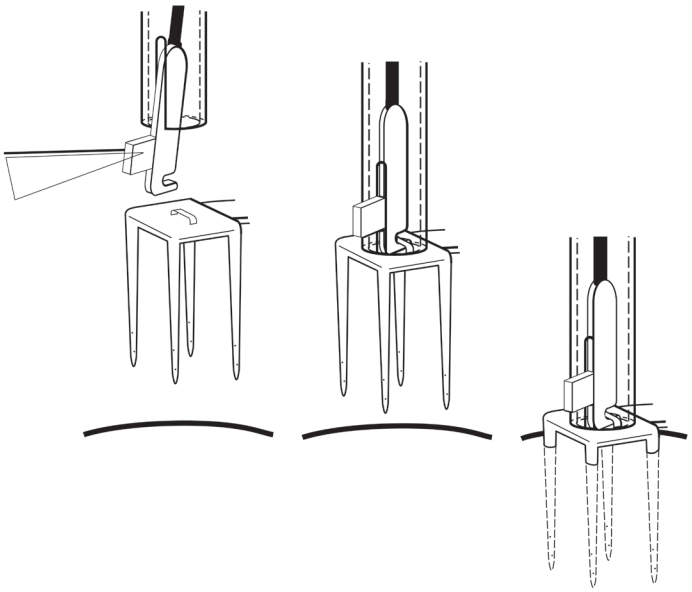
- Demonstrated 3D chronic long-duration recording of single units (> 9 months)
- Wide range of configurations of recording sites and dimensions
- Significantly increased maximum depth (e.g., Utah: 1.5 mm, N-Form: 20.0 mm)
- Easy to learn and use insertion system



Caution - Device for investigational use in laboratory animals or other tests that do not involve human subjects.

COMMON APPLICATIONS

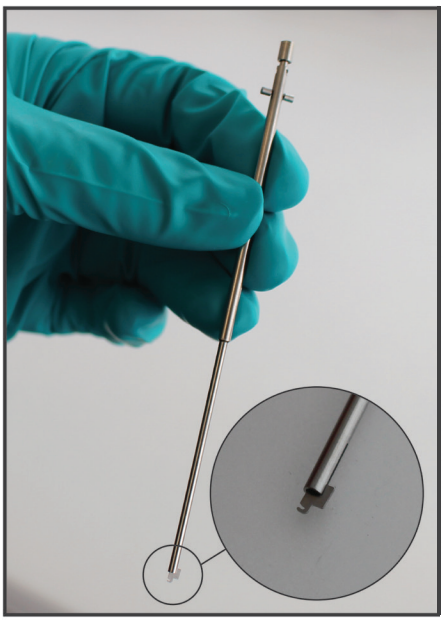
Motor Cortex | Sensory Cortex | Peripheral Nerve Fibers



The N-Form® is an advanced version of the proven microwire and polymer composites that have been utilized in neuroscience for decades. Our manufacturing platform delivers these advanced microelectrodes using state of the art micromachined tooling and the highest grade microwire and biocompatible polymer.

- High density 3D array
- Quickly customizable configurations
- Floating neural interface
- Sterilizable
- Capable of microstimulation
- Variety of connector options
- Iridium Oxide (IrOx) coated sites

Sepecifications	
Electrode site diameter	25 um
Electrode site material	IrOx coated
Shank thickness	125 um
Number of channels	4 - 128
Number of shanks/array	4 - 16
Numer of sites/shank	1 - 8
Site locations available	mm - 20.0 mm
Shank lengths available	0.5 mm - 20.0 mm
Spacing between shanks	500 um
Array backplate (3 sizes)	• 1.0 mm x 1.2 mm (2x2) • 1.5 mm x 1.7 mm (3x3) • 2.0 mm x 2.2 mm (4x4)
Array backplate thickness	500 um (shanks < 3.5 mm), 800 um (shanks > 3.5 mm)
Range of cable lenghts	1.5 cm - > 13.0 cm (0.5 cm increments)



L020-25 (Rev A0, 2024-10-01)

FHC, Inc.
1201 Main Street
Bowdoin, ME 04287 USA
Fax: +1-207-666-8292
www.fh-co.com

EC REP
FHC Europe
(TERMOBIT PROD srl)
42A Barbu Vacarescu Str, 3rd Fl
Bucharest 020281 Sector 2
Romania

FHC Latin America
Calle 6 Sur Cra 43 A-200
Edificio LUGO Oficina 1406
Medellín-Colombia