

Omnetics Based Microwire Arrays

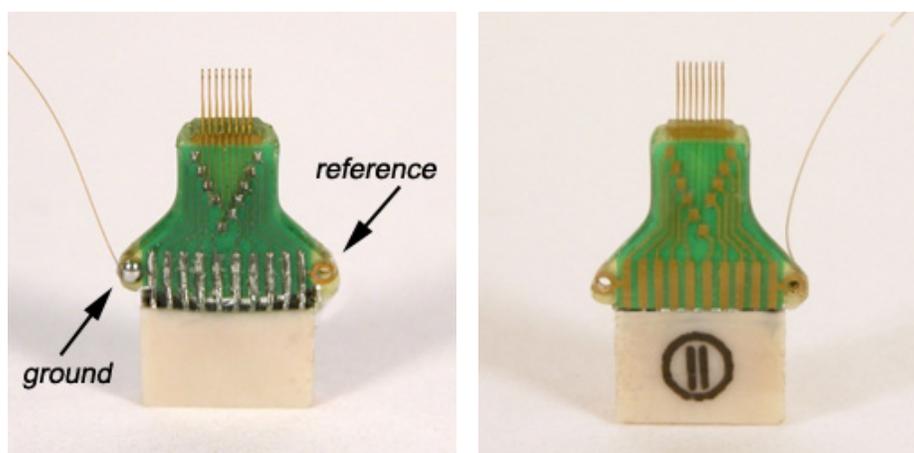
Part Numbers: OMN1010, OMN1005, OMN1020, OMN1030

Standard 50 μm polyimide-insulated tungsten microwire gives the arrays excellent recording characteristics and the rigidity of tungsten facilitates insertion. The standard OMN1010 array consists of sixteen channels configured in two rows of eight electrodes each and are typically accessed via our RA16CH 16-channel headstages. OMN1005, OMN1020, and OMN1030 share this standard configuration with varying electrode separation specifications. Consult the documentation provided with your array for custom specifications.

Grounding the Electrode

Our latest laser cut microwire arrays (OMN1010) have one location each to connect needed ground and reference wires. Because the reference and ground are shorted together in our RA16CH chronic headstages (unless the jumper is cut by the user) only one wire will be needed for most cases.

Important! The solder pad is located on the backside of the microwire circuit board.



Back View ----- Front View

The illustrations above show a single wire connected to the ground pad located on the backside of the array.



Caution! The microwire array can be damaged by extreme heat. Use caution when soldering.

Specifications might vary based on custom order:

Specification	Default	Options
n Rows X n Electrodes	2X8	Max channels = 32
Metal	Tungsten	
Wire Diameter	50 μm	33 μm
Insulation	Polyimide	
Electrode Spacing	250 μm	175 μm , 350 μm , 500 μm
Row Separation	500 μm	1000 μm , 1500 μm , 2000 μm
Tip Angle	Blunt Cut (0 degrees)	30, 45, 60 degrees
Tip Length	2mm	0.5 - 4 mm
Attached G/R Wires	None	Ground, Reference

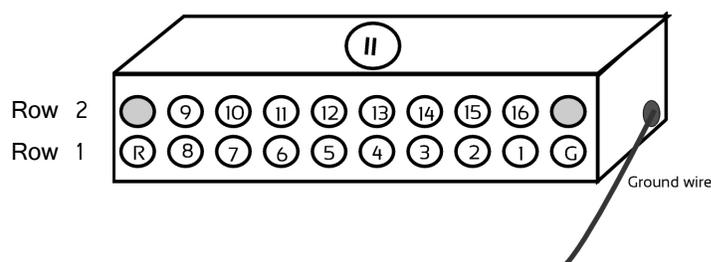
See the *Online Order Form* (PDF format) for more information on ordering specifications.

Pinout Diagram

Omnetics dual row 18-pin nano connector(s) (0.025 mil pitch; <2x7x4mm)

Ground wire is attached adjacent to row 1.

16 Channel Connector



32 Channel Connector

