



EIB-27MF: Pin Layout (Top View)

The Electrode Interface Board (EIB-27MF) is mounted to microdrive hardware and provides the electronic signal connection between electrode wires and a 27 channel Neuralynx Headstage Pre-amplifier (HS-27 and HS-27M). The EIB-27MF also provides mechanical connection between microdrive hardware and the HS-27 or HS-27M. The female pins that provide the headstage connection are extremely fragile.

The EIB-27MF does not contain any active electronics, and can pass signals in either direction. The HS-27 or HS-27M will define the signal direction via its buffer amplifiers.

HS-27/HS-27M Connection

The HS-27 and HS-27M are connected to the EIB-27MF with double row header pins. Both headstages have a power LED on one face of the headstage. The power LED should face towards the top of the EIB-27MF where A1 is printed on the board.

EIB-27MF Mounting

The EIB-27MF is designed for mounting on a microdrive. Use the screw holes (on the right and left) to mount the EIB-27MF securely to a microdrive.

Electrode Connection

Electrode wires will be inserted from the bottom of the board. Insulation does not need to be removed from the wire if using Neuralynx EIB Pins. See the *Electrode Attachment Guide* for more information on using EIB Pins. The EIB-27 uses the Large EIB Pins (0.05cm/0.021”).

EIB Reuse

Reuse of the EIB-27MF is not recommended, but is possible. If reuse of the EIB-27MF is required, please contact Neuralynx for assistance.

Technical Specifications:

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| Size (LxWxH) | 2.7cm x 0.6cm x 0.6cm |
| Weight | 687mg |
| Signals | <ul style="list-style-type: none"> • 24 electrodes (A1→A12, B1→B12) • 1 Ground (G) • 1 Reference (R) • 2 Extra EEG channels (E1, E2) |
| Connections | <ul style="list-style-type: none"> • 33 0.05cm Vias • 30 female pins |
| Mounting Screw Diameter | 0.16cm |