

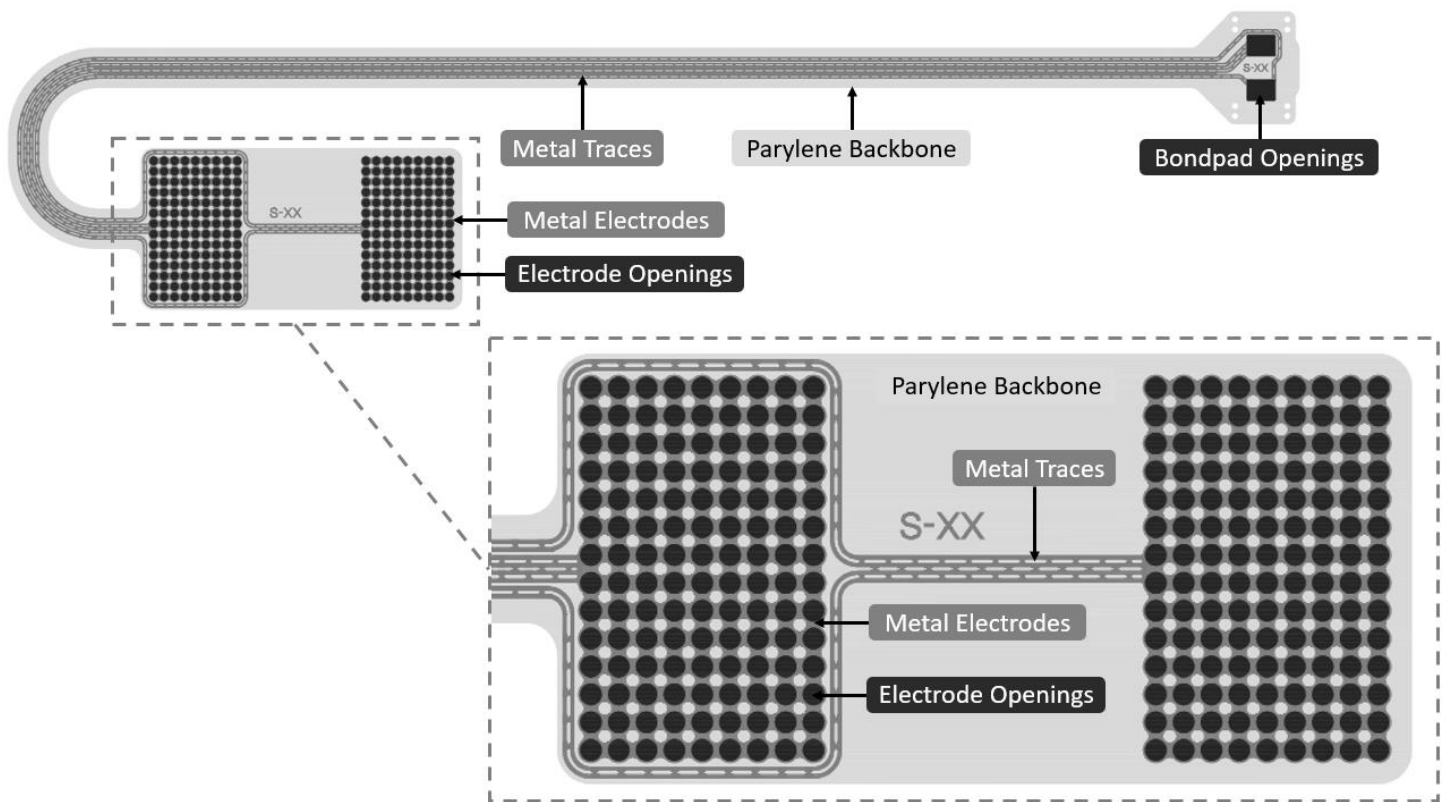
## NEST 4 Microfabricated Cuff - CAD Models

Updated 24 July 2023

For each selected design (B3- and E3-), a 2D mask layout and 3D rendering are included. Full CAD files will be available on GitHub.

The image below shows a labeled sample of a 2D layout with critical dimensions labeled. The bondpad region (at the end of the tail) is likely to change after the development of the lead attach process by Med-Ally in year 2.

Light gray features are the Parylene backbone. Medium gray features are insulated metal (sandwiched between two Parylene layers). Dark gray features are exposed metal (with Parylene on the backside and no Parylene on the top side).

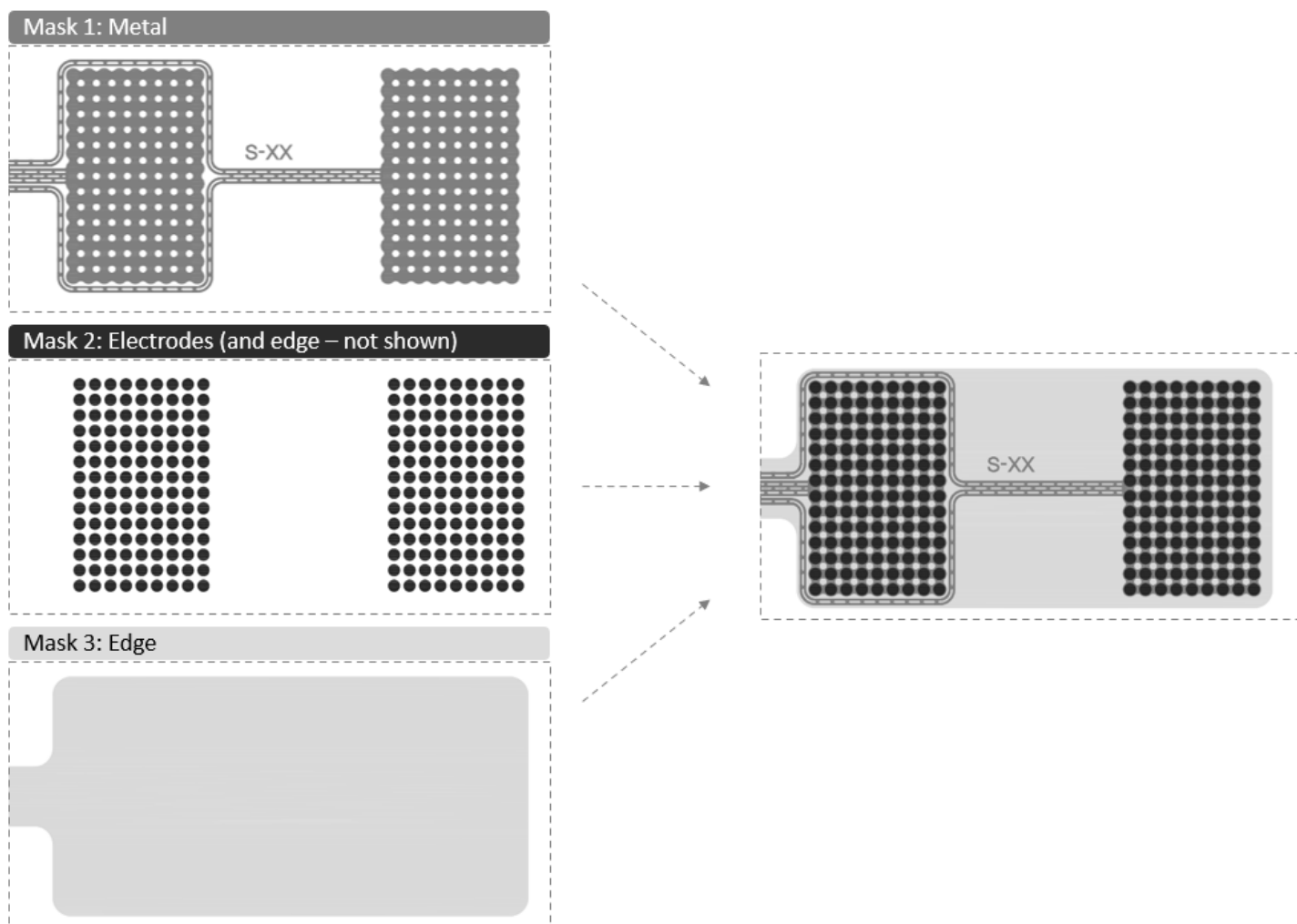


All images shown in the sections below are similar to the one above, but unlabeled. The colors represent three layers of the 2D CAD model. These layers are shown separately in the image below for clarity but are not included for each model in this document. CAD files on GitHub include all layers separately. The three layers represent the three masks:

Mask 1: Metal features

Mask 2: Electrode openings and device edges (edges not shown in the image below)

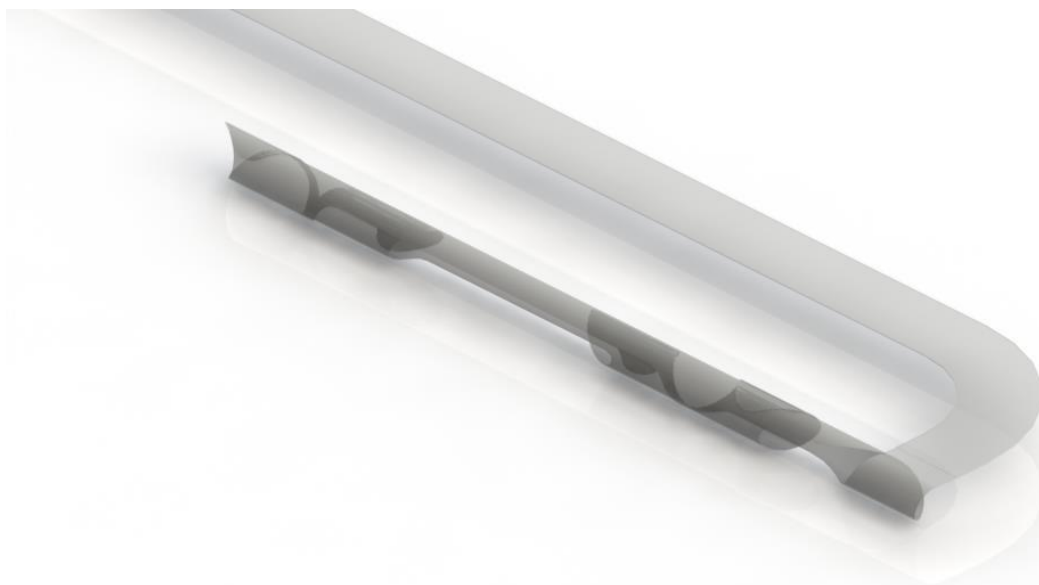
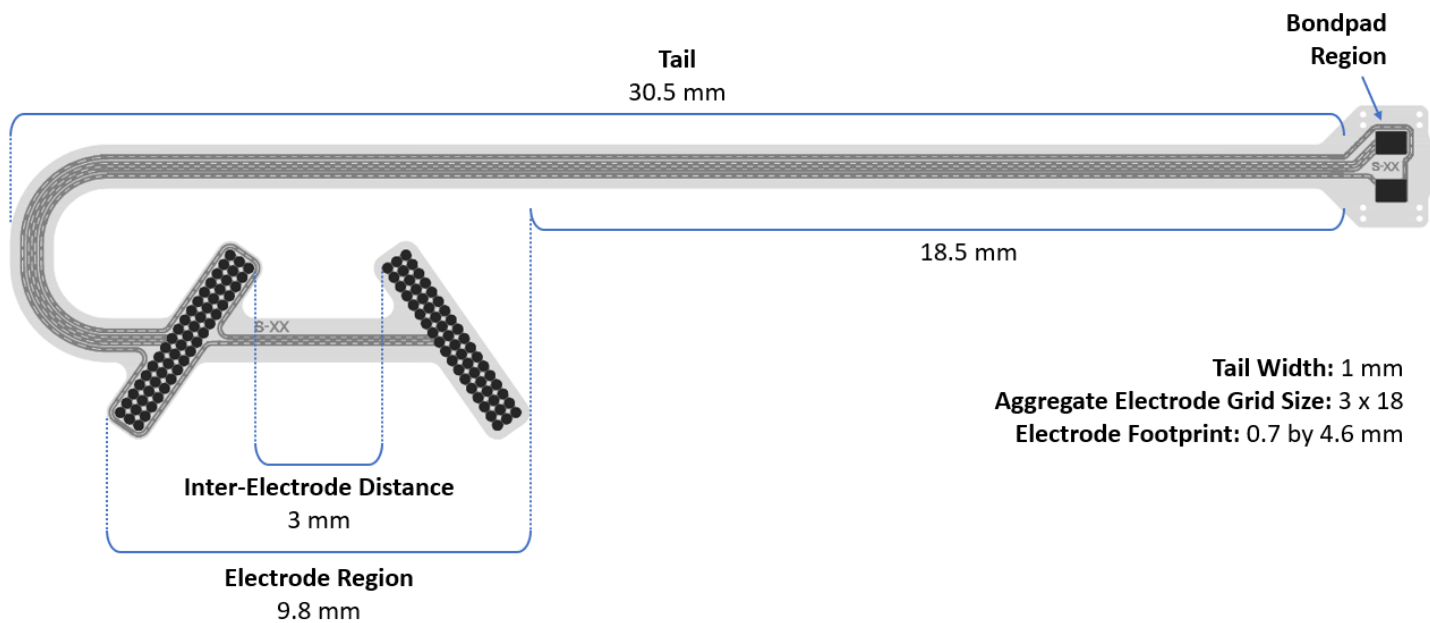
Mask 3: Device edges only



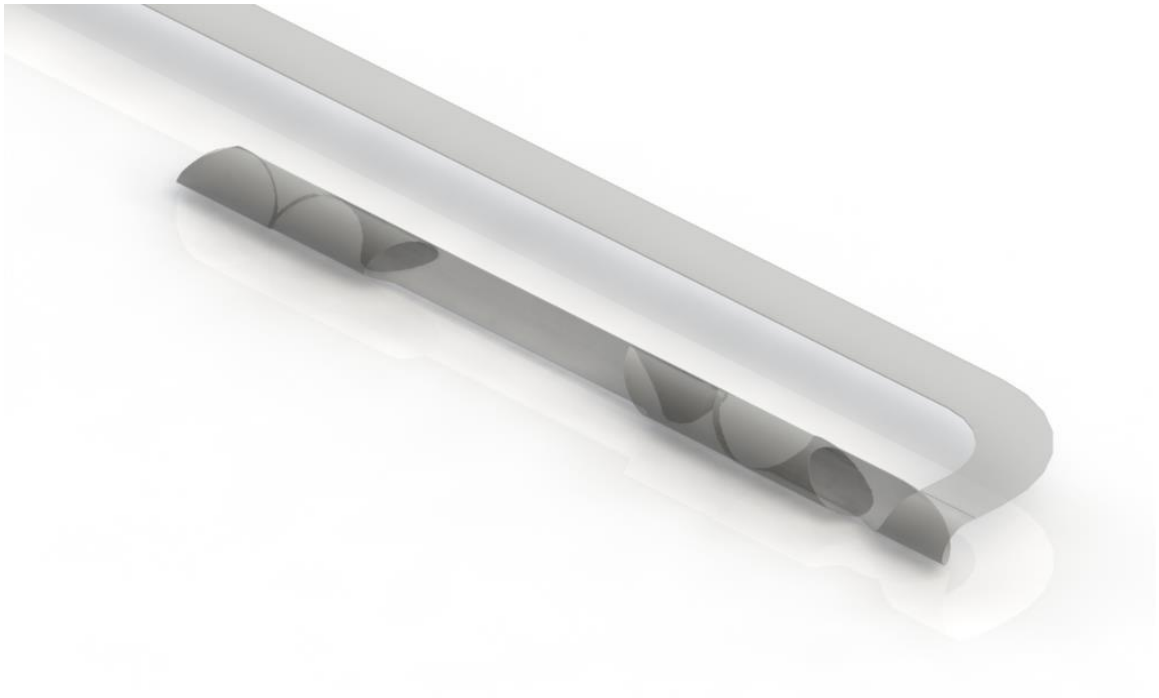
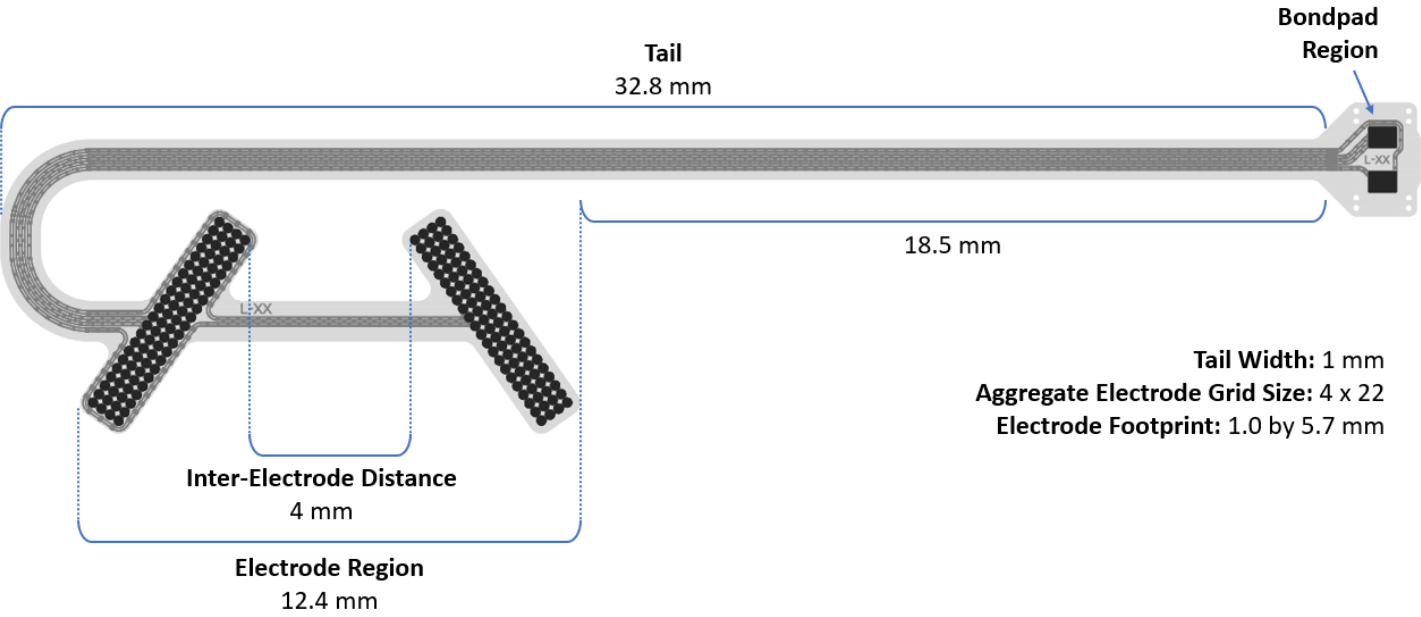
Below the 2D layout, a 3D rendering of the device is shown. The 3D model shows the overall device shape (only the Parylene backbone, no electrodes or other metal is included).

## Design B3-

*Small size*

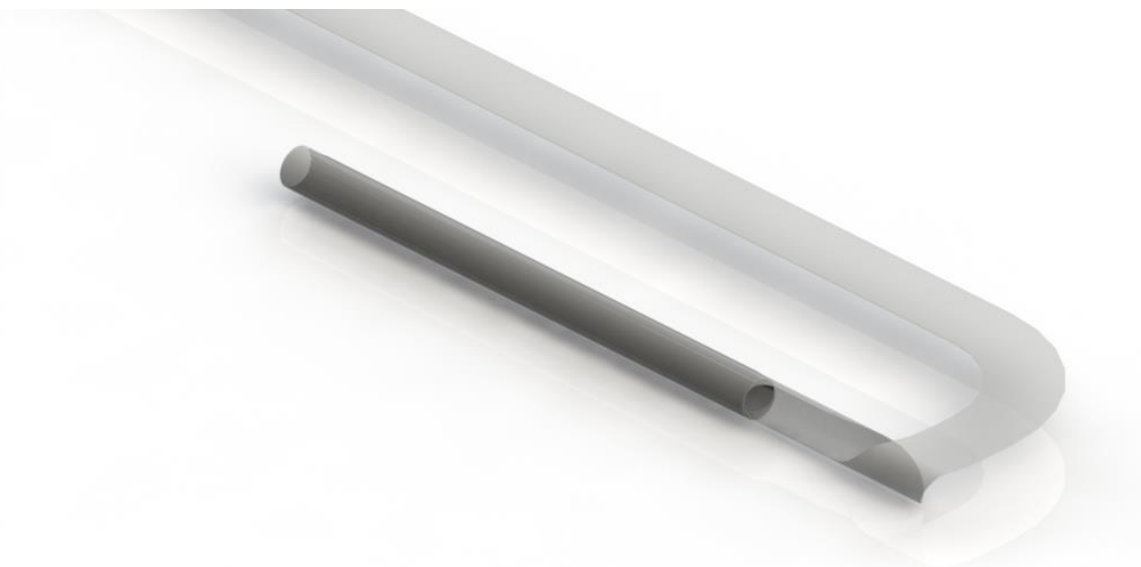
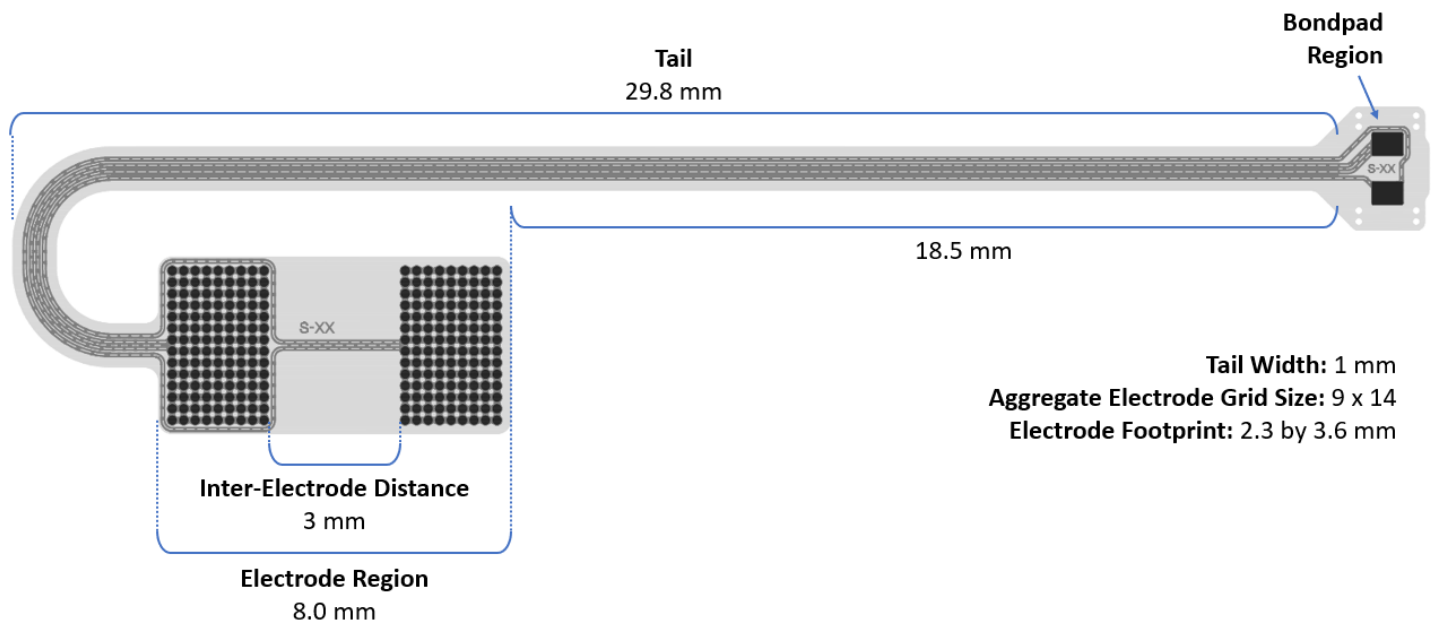


**Design B3-**  
*Large size*



## Design E3-

*Small size*



**Design E3-**  
*Large size*

