

ADVANCED TECHNOLOGY DEVELOPMENT CENTRE IIT KHARAGPUR

Dated: 15/10/2018

Enquiry Number: IIT/ATDC/SB/Operating/Cons-005/2018-19, Dated 15th October

This is an open web enquiry for quotations for 16 channel microelectrode array with optical stimulation capability incorporated (MEA-Optrode). You are requested to send quotations for the MEA-Optrode assembly with the specifications provided below. Please note that payment terms should be NET-30 days and quote should include shipping in delivery duty paid (DDP) mode for foreign shipments.

Last date of submission: 31st October, 4 pm

Quotations will be opened: 1st November, 4 pm

Please send quote in sealed envelope to the following address with reference to the enquiry number:

Sharba Bandyopadhyay
Information Processing Lab
Room 112, Department of Biotechnology
IIT Kharagpur
Kharagpur, Paschim Medinipur, WB, India
PIN-721302

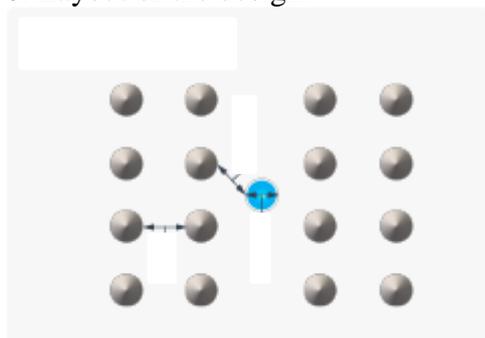
Number of opto-mea electrodes: 2 (Two)

Electrode Specifications:

1. Metal type: Platinum/Iridium 70/30%, 75 μ m diameter
2. With No Polyimide tubing
3. Number of Electrodes in array: 16
4. Electrode Impedance Value: >3 MOhms on each electrode

Physical Measurements

5. Length of electrode beyond epoxy: 5mm
6. Epoxy length below connector: 3mm Typical for 0.025" pitch and 5mm for 0.050" pitch
7. Distance between electrodes: 0.125 mm
8. Layout of the design:



9. Number of rows of electrodes: 4

10. Distance between rows: 0.125
11. Number of fiber optic in the array: One
12. Type of desired fiber optic and receptacle:
Thorlabs M77L01 patch cable
<https://www.thorlabs.com/thorproduct.cfm?partnumber=M77L01>
<https://www.thorlabs.com/thorproduct.cfm?partnumber=M77L01>
13. Horizontal distance from the edge of fiber optic and the closest electrodes: 100 microns
14. Length of the fiber optic beyond epoxy: 4 mm
15. A reference electrode/wire should be included of the same metal as recording electrode with 10 K Ω impedance
16. A Ground wire should be included as an additional bare sharpened electrode of the same metal type included in the array.
17. Number of connectors: 1
18. Connector(s): A79014-001A79014-001 Male Omnetics connector- 16 channel, 18-pin, 0.025" pitch, 6 guides posts, Two rows.
19. Receptacle edge - Connector edge distance: 5 mm