

# Thomas Electrode

## Data Sheet

**Type I:** for use with Thomas Electrode Microdrive systems

### Technical data:

**Core conductor material:** platinum (95%) , tungsten (5%)

**Insulation material:** quartz glass

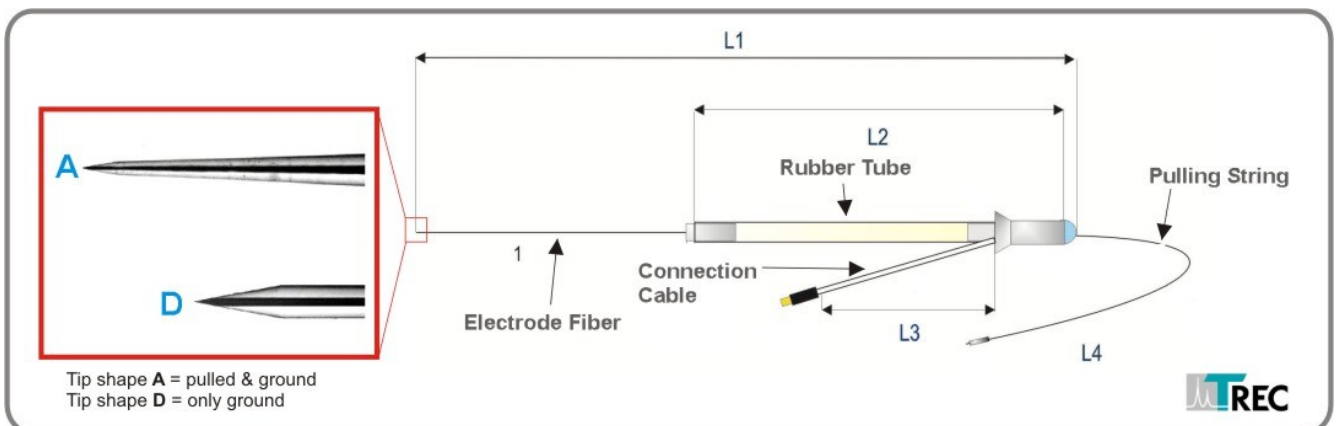
**Tip shape:** (A) pulled & ground, Impedance 1-10MΩ

(D) only ground, Impedance 0.5-0.8MΩ

**Connectors:** 4021EFL (for Thomas microdrive type „Eckhorn and Mini Matrix“)

4060EFL (for Thomas microdrive type „Tetrode Mini Matrix“)

900002998EFL (for Thomas microdrive type „Pencil Drive“)



**Figure 1:** Thomas electrode for Thomas microdrives

### Dimensions:

**L1** = electrode fiber length / **L2** = rubber tube length /

**L3** = connection cable length / **L4** = pulling string length

**Attention:** The aforementioned dimensions are determined for each Thomas microdrive system. Please provide serial number of microdrive and microdrive exchangeable head for correct electrode dimensions. If you are not sure, please contact Thomas RECORDING.

### Article numbers:

AN000050 (Eckhorn Matrix, 1 piece)

AN000222 (Eckhorn Matrix, box of 12 pieces)

AN000203 (Mini Matrix, 1 piece)

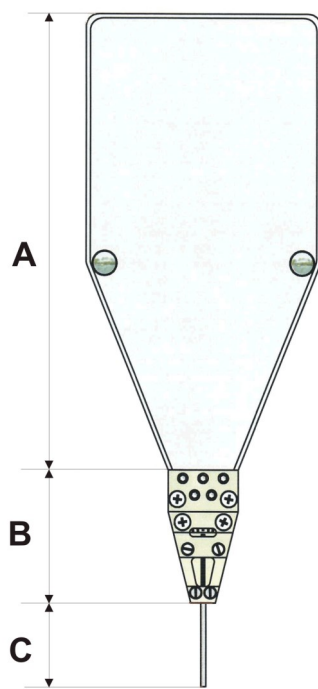
AN000204 (Mini Matrix, box of 12 pieces)

AN000217 (Tetrode Mini Matrix, 1 piece)

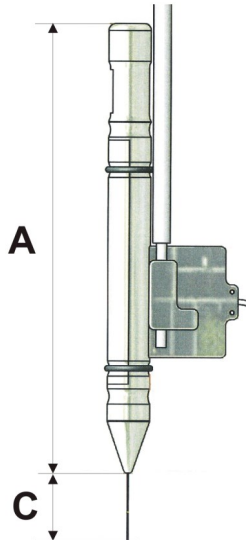
AN000218 (Tetrode Mini Matrix, box of 12 pieces)

AN000719 (Pencil Drive, box of 12 pieces)

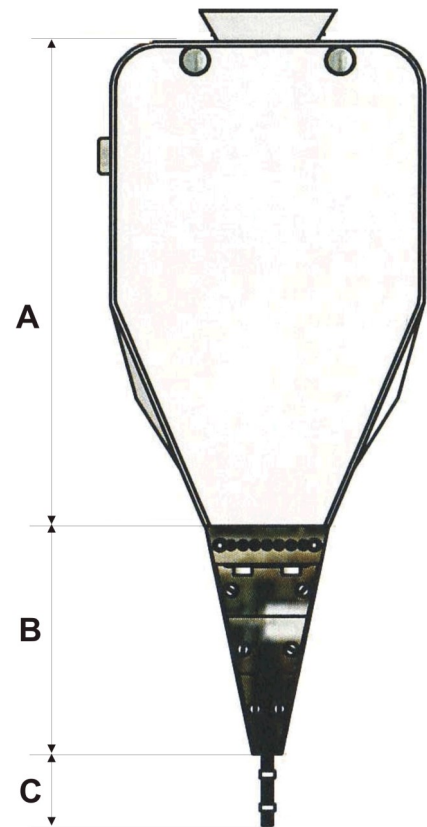
## Adaptation of electrode dimensions to the microdrive



**Figure 2:** Thomas  
Mini Matrix



**Figure 3:** Thomas  
Pencil Drive



**Figure 4:** Thomas  
Eckhorn Matrix

For the determination of the correct electrode dimensions for Thomas microdrive electrodes we need the microdrive type (Mini Matrix, Pencil Drive or Eckhorn Matrix) and three dimensions of the Thomas microdrive system (see figure 2 and 3). Please provide the lengths A, B and C in millimeters if required. If any of the aforementioned microdrive dimensions have changed after the microdrive system was delivered to your lab or since your last electrode order (e.g. the guide tube length C), please let us know. In this case we have to recalculate the electrode dimensions.