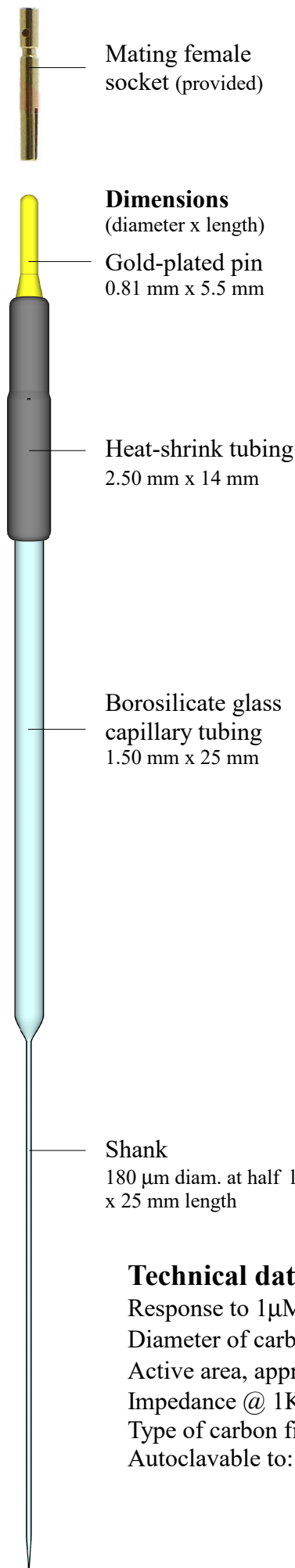


Carbon fiber disc microelectrodes for electrochemical and biosensor applications

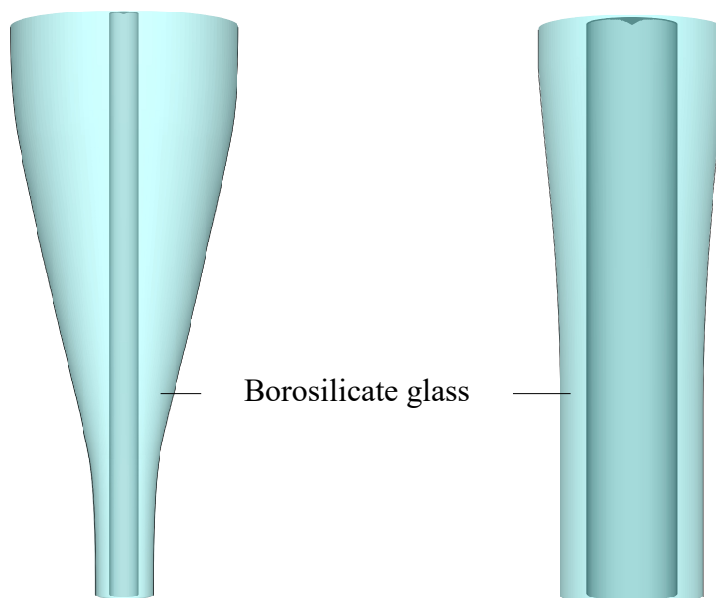
The carbon fibers are encapsulated in thick borosilicate glass for durable mechanical support and electrical insulation. A unique hermetic seal between the carbon core and the glass sheathing allows usage of these electrodes almost in any environment. The active carbon surface polished at 90° on a 0.05 μm diamond particle containing surface. Other grinding angles are available on special orders. They are manufactured using two sizes and types of carbon fibers as shown. Mating female sockets are provided or use our adaptors M2334 for BNC-input (Dagan, np) or M2335 for HLU-type (Axon) headstages.

Final 200 μm lengths of disc microelectrodes

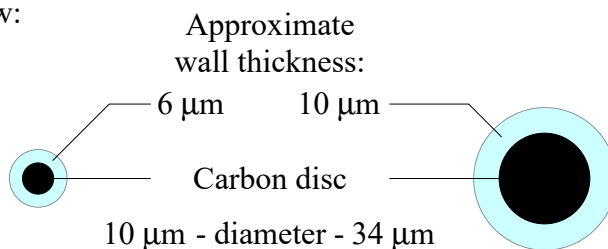


Part no. CDE1000

Part no. CDE3400



End view:



Technical data:

Response to 1μM dopamine:	1.5 nA (FSCV, 300 V/s)	18 nA (FSCV, 300V/s)
Diameter of carbon fiber:	10 μm	34 μm
Active area, approx.:	79 μm ²	908 μm ²
Impedance @ 1KHz	1.6 MΩ	1.4 MΩ
Type of carbon fiber:	Pitch-type	Glassy carbon
Autoclavable to:	140 °C	140 °C