

Dimensions (diameter x length)



Insulated wire
length: 150 mm

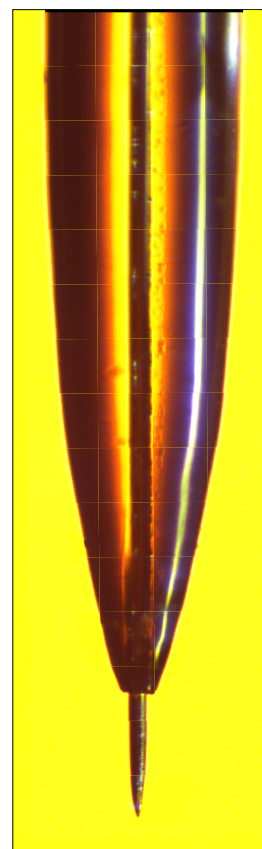
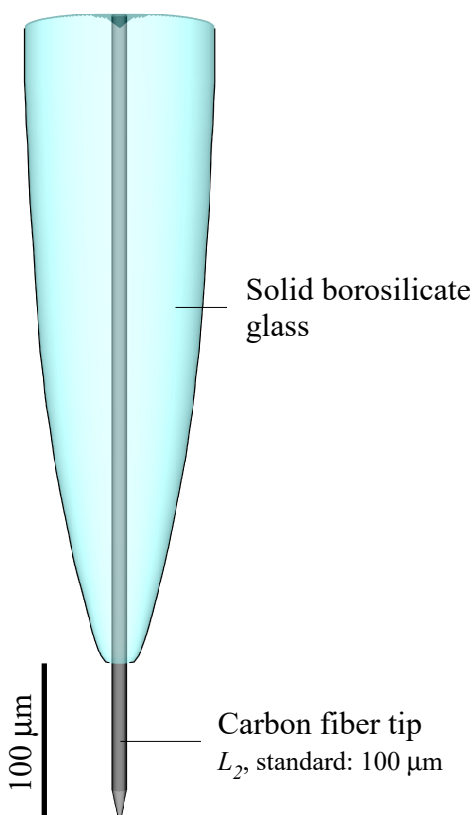
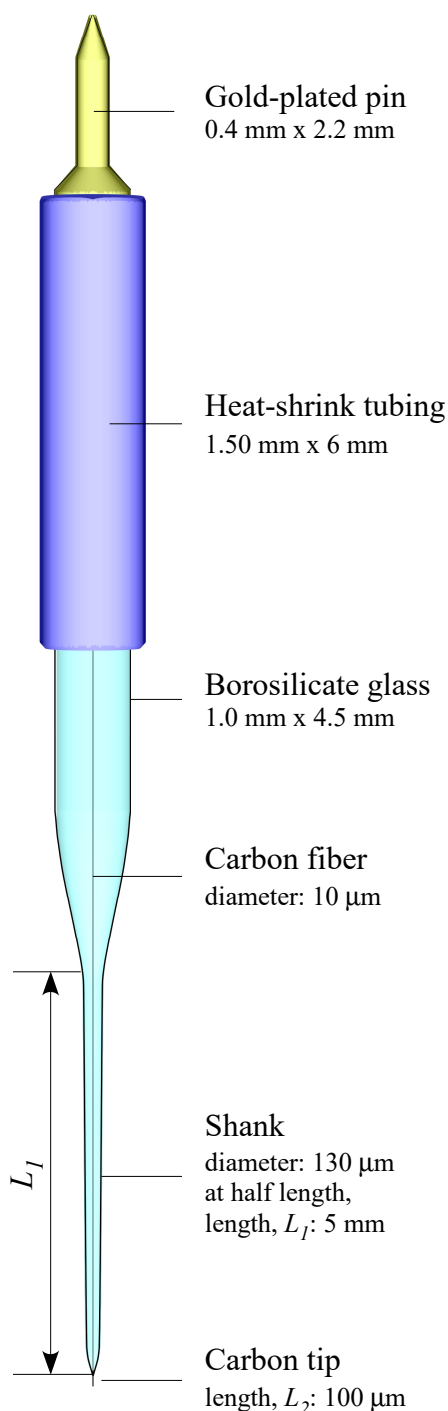
Mating female
socket, wired
(provided)

Implantable carbon fiber microelectrode for electrochemical, electrophysiological or micro-biosensor applications

The carbon fiber is 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 in any environment. A mating female socket is provided with pre-attached insulated lead wire. This miniature carbon fiber microelectrode excels in recording electrochemical, micro-biosensor or electrophysiological signals including spikes or local field potentials. Employing an appropriate head-stage probe, these signals can be recorded in a time-shared fashion on a millisecond base. Standard lengths are shown; other L_1 or L_2 lengths are available on special orders.

Tip of the microelectrode

Part no. ICFE10100



Technical data of 100 μm-long carbon tip:

Response to 1 μM dopamine:	38 nA (FSCV, 400 V/s)
Diameter of carbon fiber:	10 μm
Exposed standard length:	100 μm
Active area, approx.:	2 850 μm ²
Impedance @ 1KHz	150 KΩ
Fiber type:	Pitch-type
Autoclavable to:	140 °C