

# Tunglass-2

*Tungsten microelectrodes with glass insulation of extreme durability*

Manufactured using *Kation Scientific's* proprietary method, this glass insulated tungsten microelectrode represents a truly exceptional solution to many drawbacks associated with more traditional metal microelectrodes.

The industry standard gold-plated pin on top allows a low-resistance galvanic connection to most headstage probes. The 1.5 mm O.D. borosilicate glass sheathing provides an additional support for the fine tungsten wire and allows a convenient way to handle and to attach this microelectrode to any holder.

Next to the holder section, the glass forms a 40 to 80  $\mu\text{m}$  thick electrically insulating layer sturdily adhering to the lead element tungsten wire for about a length of 35 mm.

Finally, the glass insulation tapers onto the tungsten tip, etched to a 5.5° or 2.3° angles, ending in a 3  $\mu\text{m}$  thick durable glass ridge.

## Additional advantages are:

- ★ True pin-hole free insulation
- ★ Re-usable many times
- ★ Deep tissue penetration
- ★ Selectable tip styles & impedances
- ★ Mating female pin is provided
- ★ Autoclavable to 140 °C

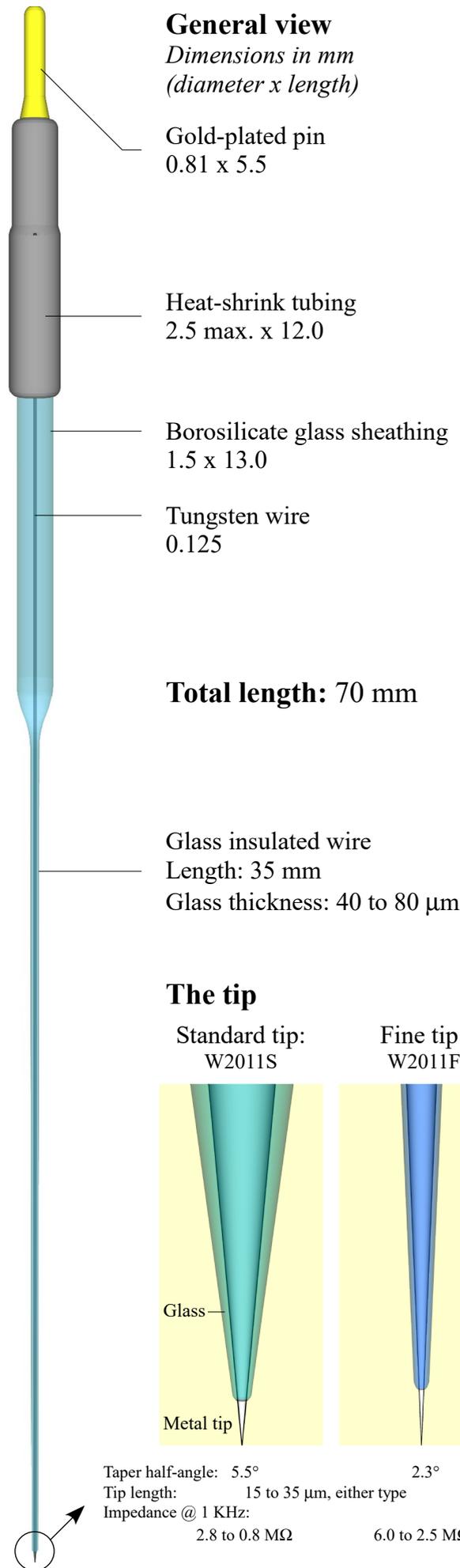
## Order info:

Tip style	Part no.	Nominal impedance @ 1KHz (actual range), M $\Omega$		
Standard	W2011S	1 (0.8 to 1.2)	1.5 (1.3 to 1.8)	2 (1.9 to 2.4)
Fine	W2011F	2 (1.6 to 3.0)	4 (3.1 to 5.0)	6 (5.1 to 7.0)

Other impedance values on request. Sold in boxes of 7 or 20 pieces.

Order example:

W2011S-1.5-20, a box of 20 count standard standard tip tungsten microelectrodes of about 1.5 M $\Omega$  impedances



**Tunglass-2** datasheet      Part no. W2011

Glass-insulated tungsten microelectrode

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