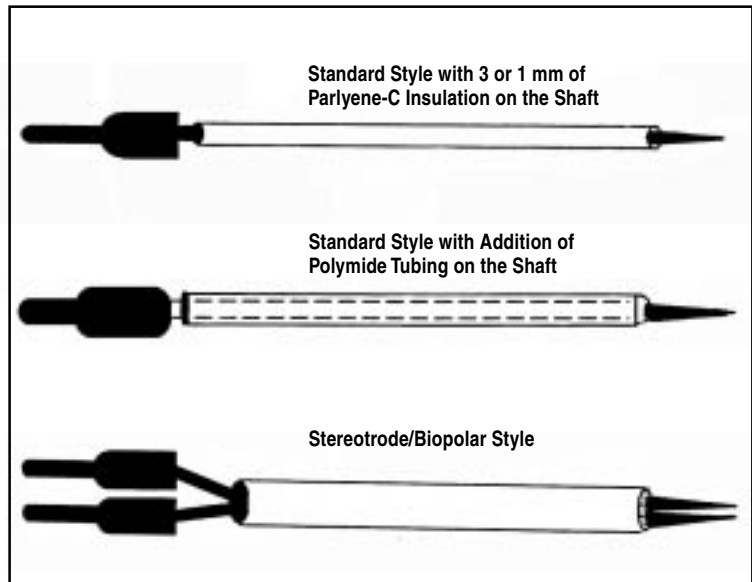
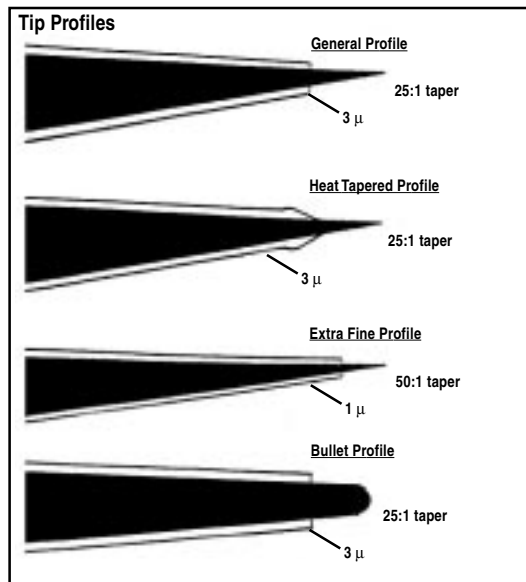


Macro and Micro Metal Electrodes



Metal Macro Electrodes

- Excellent for stimulation, lesions, and recording evoked responses
- Parylene-C insulation makes these Electrodes ideal for chronic applications
- Select from tungsten or stainless steel metals

These Macro Electrodes are similar in construction to our Metal Micro Electrodes except they are larger in size. Their shaft diameters range from 0.009 inches (229 μm) to 0.02 inches (508 μm). The same unique manufacturing process is used to create these electrode tips so they provide consistent, repeatable, superior performance. They are 3 inches (76.2 mm) long and are constructed of either stainless steel (elgiloy) or Tungsten. The electrode shaft has a 3 mm coating of Parylene-C insulation. They are supplied in a box of 10.

Metal Macro Electrodes			
Catalog No.	Shaft OD in (mm)	Tip	Impedance at 1 kHz
Stainless Steel (Elgiloy)			
CGS 8735.71	0.009 (229)	0.1 mm	125 kΩ
CGS 8736.71	0.009 (229)	0.25 mm	13 kΩ
Tungsten			
CGS 8737.71	0.010 (254)	0.1 mm	100 kΩ
CGS 8738.71	0.010 (254)	0.25 mm	10 kΩ
CGS 8739.71	0.020 (508)	0.1 mm	75 kΩ
CGS 8740.71	0.020 (508)	0.25 mm	7 kΩ

Metal Microelectrodes

These Metal Micro Electrodes are ideal for a multitude of applications including single- and multi-unit studies, stimulation, lesioning, and evoked response studies. Four metals are available depending on the application:

- Tungsten
- Stainless Steel (Elgiloy metal)
- Platinum/Iridium Mix (80/20%)
- Pure Iridium

- Outstanding for extracellular recording and micro-stimulation
- Unique, precision manufacturing process provides consistent repeatable tip profiles for superior performance
- Select from 4 metals, 3 styles, and 4 tip profiles to meet almost any application
- Gold-plated connector pins for superior electrical connections
- Custom made probes readily available

Tungsten is the most versatile and widely used type of probe. It is ideal for demanding recording situations and most stimulation protocols.

The **Stainless Steel (Elgiloy)** Electrodes are widely used as the primary component for the 'vibrating probe' electrode. It is vibrated at a fairly high frequency and is used to record very small DC potentials. It is also used for Prussian blue staining around the tip by passing a small anodal current.

The **Platinum/Iridium** mix Electrodes have a lower concomitant impedance value than tungsten or stainless steel for the same exposure, therefore they are ideal for recording. They are also superior for stimulation studies because they are less likely to erode during intense stimulation protocols. This metal mixture is also excellent for chronic implants because it is very biocompatible.

The **Pure Iridium** Electrodes are ideal for improved stimulation and recording. Pure Iridium is extremely stiff and has a much lower concomitant tip impedance than any other noble metal. It is extremely inert and very resistant to corrosion. Consequently, it is much less likely to erode during stimulation and can be activated using cyclic voltammetry for increased charge storage capacity to lower tip impedance values.