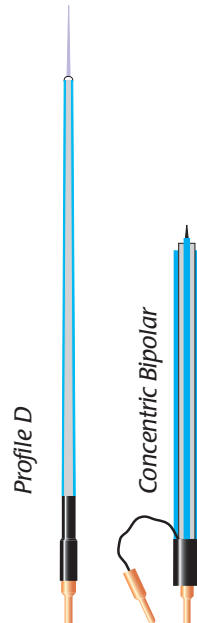
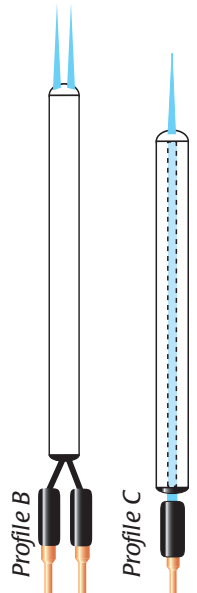
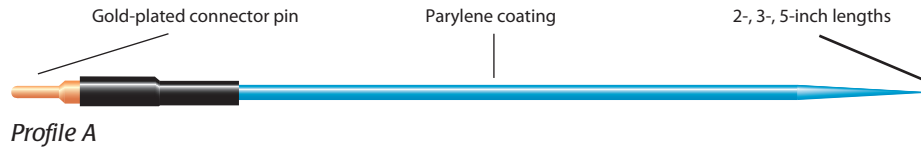




Parylene Coated Microelectrodes



These electrodes have been uniformly coated with the specified thickness of Parylene C and the tips exposed to the specified length in microns ($\pm 20\%$). Each electrode was microscopically inspected, the surface oxide was removed electrolytically, and the impedance was tested at 1 kHz. Microelectrodes are marked for impedance on the box.

Unpacking

The electrodes are wedged in foam slits for safe shipment. To remove one, grasp it near the connector end and avoid touching the tip against any surface. If damage is suspected, inspect it visually under a microscope.

Connecting

Depending on the electrode you choose, you will receive one or two female connectors.

Cleaning/Re-Use

If you intend to reuse these electrodes or if you have trouble reproducing the measured impedance values (such as after sterilization or prolonged storage), electrolytic cleaning of the surface is recommended.

Apply 2–3V DC between the electrode and a saline bath, with the electrode negative. When the electrode is lowered into the bath, a stream of electrolytic gas bubbles are seen coming from the tip. If you suspect damage to the insulation along the shank, look carefully for more than one stream of bubbles.

This process will not damage your Parylene insulated electrodes, which are electrostatically exposed at the factory using over 2,000V DC. Similarly, electrodes used for lesion marking of recording tracks can continue to be used for single unit recording.

Sterilizing

If you need to sterilize your microelectrodes for chronic recording, several methods are available. In many cases, simple rinsing in 70% alcohol will be sufficient. If the whole electrode must be sterilized, the insulation will withstand most surgical sterilizing solutions, ethylene oxide gassing and autoclaving with the electrode submerged in distilled water (use the wet cycle cool-down setting on your autoclave).



CAUTION: AVOID autoclaving in air and vapor sterilizing using formaldehyde and UV light.

ACCESSORIES

5483	0.031" Gold-plated female connectors (pkg. of 50)
5470	0.031" Female connector with 12" wire attached, 28 ga. (pkg of 4)
M3301EH	Replacement Electrode Holder

For more information on the metal microelectrodes, visit www.wpiinc.com/microelectrodes.

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