

# Stimulating Electrodes

## Technical Note

### Overview

iWorx stimulating electrodes are designed to improve conductivity and can be used on animal tissue or on humans, when connected to isolated stimulators approved for human use. A selection of available stimulating electrodes with attached lead wires or cables are presented in this technical note.



### **A-BST-100**

The A-BST-100 Bipolar Stimulating Electrode is designed for electrical stimulation of animal tissue. The silver electrodes are 1 mm apart. It has a BNC interface and the cable is 5 feet long.



### **C-BNC-SE**



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The C-BNC-SE is a stimulating electrode assembly that can be placed on a nerve that is still located within the experimental animal. The probe, with its two silver wire electrodes, is held on the nerve by a soft plastic sleeve that presses the nerve against the electrodes for improved conductivity. This type of electrode allows studies involving nerves and muscles to be conducted on sensitive tissue without the need for traumatic removal of the tissue from the specimen. To use, attach the BNC connector of the C-BNC-SE assembly to the BNC connector of the positive low-voltage output of an iWorx data recorder. Slide the sleeve over the electrodes placed on the exposed section of the nerve.



**C-BNC-N2**

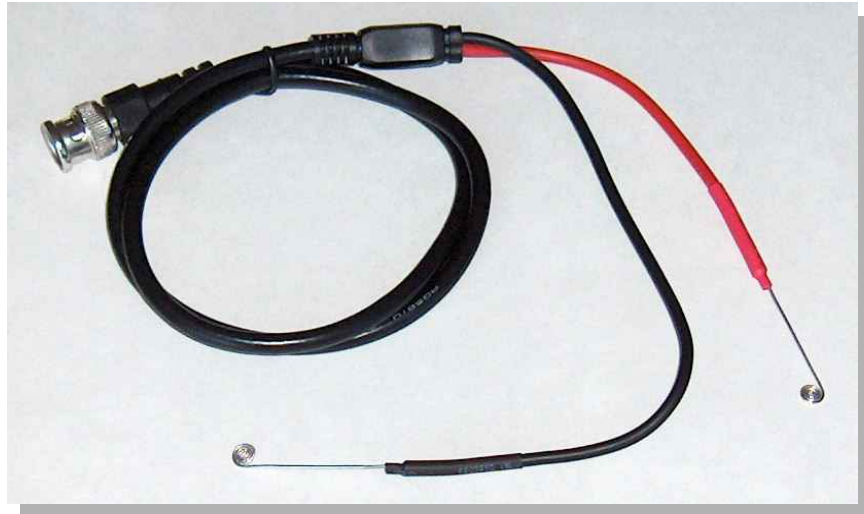
The C-BNC-N2 is a stimulating electrode with a BNC connector for attachment to BNC outputs or adapters on stimulators or data recorders. The lead wires at the other end of the C-BNC-N2 have stiff 22-gauge silver wire electrodes (each 25mm long) that are used as needle electrodes. These electrodes can be used for stimulating preparations like the earthworm ventral nerve cord or frog muscles.



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## **C-BNC-F2**

The C-BNC-F2 is a stimulating electrode with a BNC connector for attachment to BNC outputs or adapters on stimulators or data recorders. The lead wires on the other end of the C-BNC-F2 have flexible 24-gauge silver wire electrodes (80 mm long) that can be shaped to conform to the surface of tissues or organs. These electrodes can be used for stimulating hearts or muscles without damaging the organs.



## **C-BNC-P2**

The C-BNC-P2 is a stimulating electrode with a BNC connector for attachment to BNC outputs or adapters on stimulators or data recorders. The lead wires on the other end of the C-BNC-P2 have dual pin sockets for use with iWorx nerve bath chambers.



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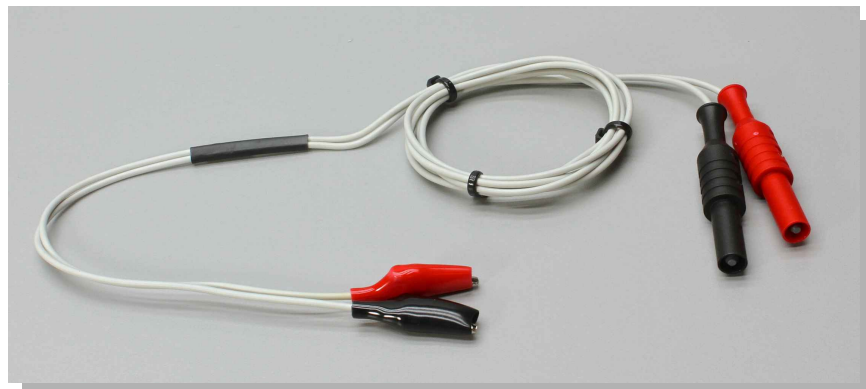
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**C-BNC-2mmM**

The C-BNC-2mmM is a stimulator cable with a BNC connector for attachment to the low voltage stimulators on iWorx data recorders. The lead wires on the other end of the C-BNC-2mmM are wired to 2 mm pins.



**C-HVS-A2**

The C-HVS-A2 is a stimulating electrode with a High Voltage Safety connector for attachment to the isolated high voltage stimulators on iWorx data recorders. The lead wires on the other end of the C-HVS-A2 are wired to alligator clips.



**C-HVS-SL2**

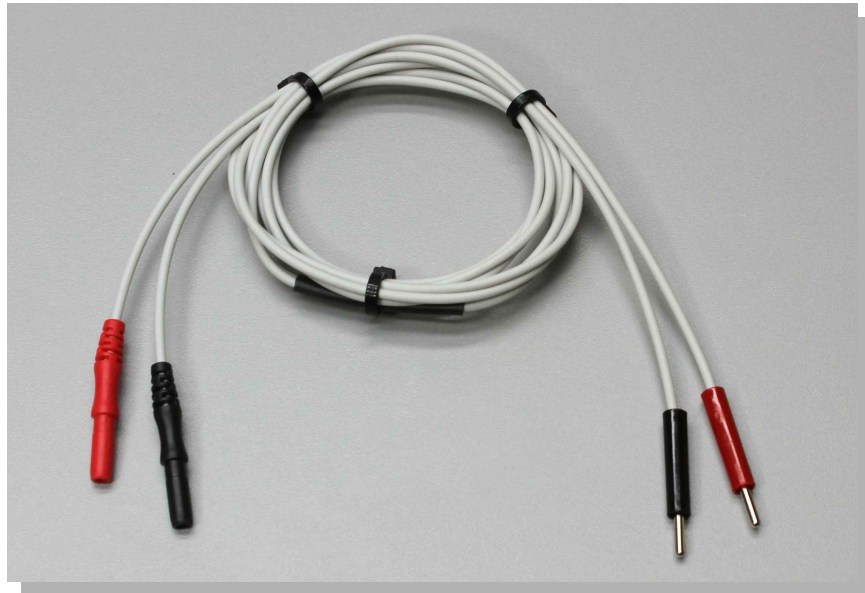


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The C-HVS-SL2 is a stimulator cable with a High Voltage Safety connector for attachment to the isolated high voltage stimulators on iWorx data recorders. The lead wires on the other end of the C-HVS-A2 have snap connectors for use with disposable snap electrodes.



## ***C-HVS-2mmM***

The C-HVS-2mmM is a stimulator cable with a High Voltage Safety connector for attachment to the isolated high voltage stimulators on iWorx data recorders. The lead wires on the other end of the C-HVS-2mmM are wired to 2 mm pins.

## ***C-HVS-GNE2***

The C-HVS-GNE2 (not illustrated) is a stimulator cable with a High Voltage Safety connector for attachment to the isolated high voltage stimulators on iWorx data recorders. The lead wires on the other end of the C-HVS-A2 are wired to Grass platinum sub-dermal electrodes.



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