



NEURAL DEVICES

microTargeting™ Mono- and Bi-Polar Electrodes

Accurate

Confidently place Deep Brain Stimulating™ (DBS™) or lesioning electrodes with assurance of cellular -level confirmation of target.

Efficient

Perform all electrode operations through integrated drive and guide tube system using precise, precalibrated components.

Sample additional tracks without repositioning drive or stereotactic frame.

All components are steam sterilizable or isolated with pre-sterilized drape sleeve.

Proven

Hundreds of surgical teams already use FHC's innovative microelectrode technology derived from our over 30 years experience as the world's leading manufacturer of research and clinical microelectrodes.

Innovative

FHC's research heritage and custom fabrication capabilities allow us to work closely with field leaders to further enhance microTargeting™ technology.

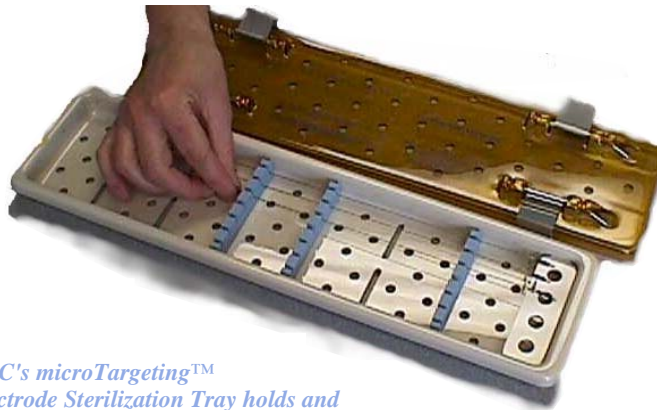
Reliable

FHC supports microTargeting™ products with comprehensive training, technical support and service.

All microTargeting™ products are cleared for clinical use within the United States and European Union.



FHC's microTargeting™ electrodes have been designed specifically for use in functional neurosurgical procedures, including placement of Deep Brain Stimulating™ electrodes, the use of ablative techniques, or whenever intraoperative recording of single unit neuronal activity in the brain is required.



FHC's microTargeting™ Electrode Sterilization Tray holds and protects microelectrodes, guidetubes, and accessories during shipping and sterilization.

Our microTargeting™ electrodes have been used at more than 100 centers throughout the world. The numerous configurations and customization options make the electrodes compatible with most drive and stereotactic systems.

FHC's microTargeting™ microelectrodes are available in many configurations including shielded and differential versions, fabricated with tungsten, stainless steel or platinum/Iridium recording tips. Many versions include a protective tube to prevent tip damage during sterilization and when mounting the electrode in the stereotactic.

The four basic configurations are as follows:

Back Loaded microTargeting™ Electrodes can be loaded into the drive guide tube prior to inserting the tube into the brain.

Front Loaded microTargeting™ Electrodes must be loaded tip first into the guide tube and include a stop collar (set at a calibrated, specified distance) and termination pin.

Shielded microTargeting™ Electrodes come with a protective tube to minimize the risk of tip damage when inserting into the guide tube. This tube also shields the microTargeting™ electrode from electrical noise, resulting in a quieter recording environment.

Differential microTargeting™ Electrodes include a protective tube which is insulated so only a small surface is exposed at the end which can be used for macro recording/stimulating.

"Innovation through collaboration"

FHC



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microTargeting™ Mono- and Bi-Polar Electrodes Specifications

To Specify FHC microTargeting™ Electrodes:

11/24/2008
mT/web.cad

CATALOG #: **mT** 1234 A/B/C/D...

microTargeting™ Electrode Specifications Dimensions

Dimension Note:
Relevant microTargeting™ Electrode dimensions are as defined below in mm. All dimensions must be specified. Alternatively, a 3 character code in parentheses may be appended to specify previously configured electrodes.

1 Electrode Type:

- B: Back Loaded microTargeting™ Electrode
 - F: Front Loaded microTargeting™ Electrode
 - S: Shielded microTargeting™ Electrode
 - D: Differential microTargeting™ Electrode
- (See diagrams below for explanation.)

Electrode Types:

The four types of microTargeting™ Electrodes available are all intended to be used exclusively with a guiding cannula to assure the straightness of the microTargeting™ Electrode track over long distances. The different types of microTargeting™ Electrodes each reflect a different method of introducing the microTargeting™ Electrode into this guiding tube.

2 Material and Insulation:

- W: Tungsten with EpoxyLite insulation
- S: Stainless Steel with EpoxyLite insulation
- P: Platinum / Iridium (80%/20%) with Glass insulation

3 Impedance:

- Measured at 1000Hz
- A: 500 Kohms (±30%)
- B: 1.0 Megohms (±20%)
- C: 5.0 Megohms (±20%)
- D: 10 Megohms (±20%)
- X: Specify between .1 and 10

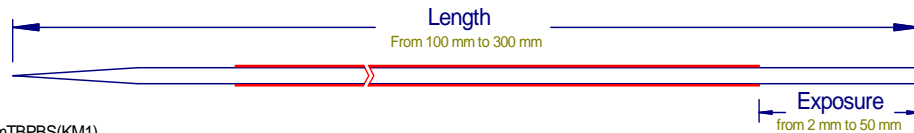
4 Packaging:

- S: A package of 6 microTargeting™ Electrodes is provided in a sterilizable case.
- N: A package of 6 microTargeting™ Electrodes is provided in a non-sterilizable case.

Type B: Back Loaded microTargeting™ Electrode

Back Loaded microTargeting™ Electrodes are intended to be threaded back first up into the guiding tube prior to insertion of the guiding tube into the brain. It is for this reason that they are provided with no termination pins.

- Specify:
A: Length
B: Exposure

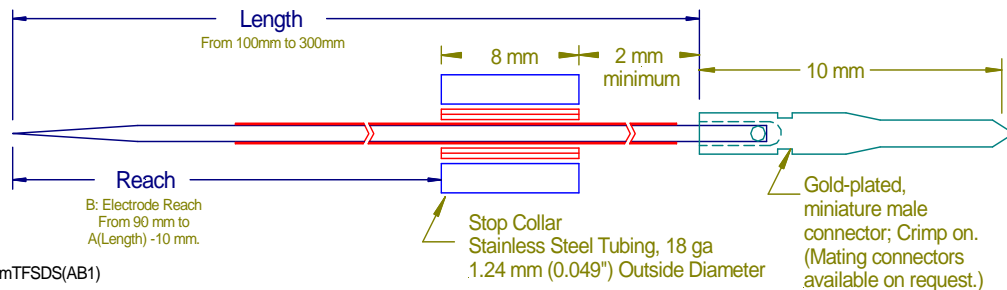


e.g. mTBPBS, 245, 20 = mTBPBS(KM1)

Type F: Front Loaded microTargeting™ Electrode

Front Loaded microTargeting™ Electrodes are intended to be threaded tip first down into the guiding tube. Great care must be taken not to damage the tip of the electrode while doing this. These electrodes are all provided with a stop collar and a termination pin.

- Specify:
A: Length
B: Reach



e.g. mTFSDS, 238, 225 = mTFSDS(AB1)

FHC's microTargeting™ Drive System is now cleared for human use. For more details, please visit the microTargeting™ section at www.fh-co.com or call and ask to speak to our Technical Specialists.

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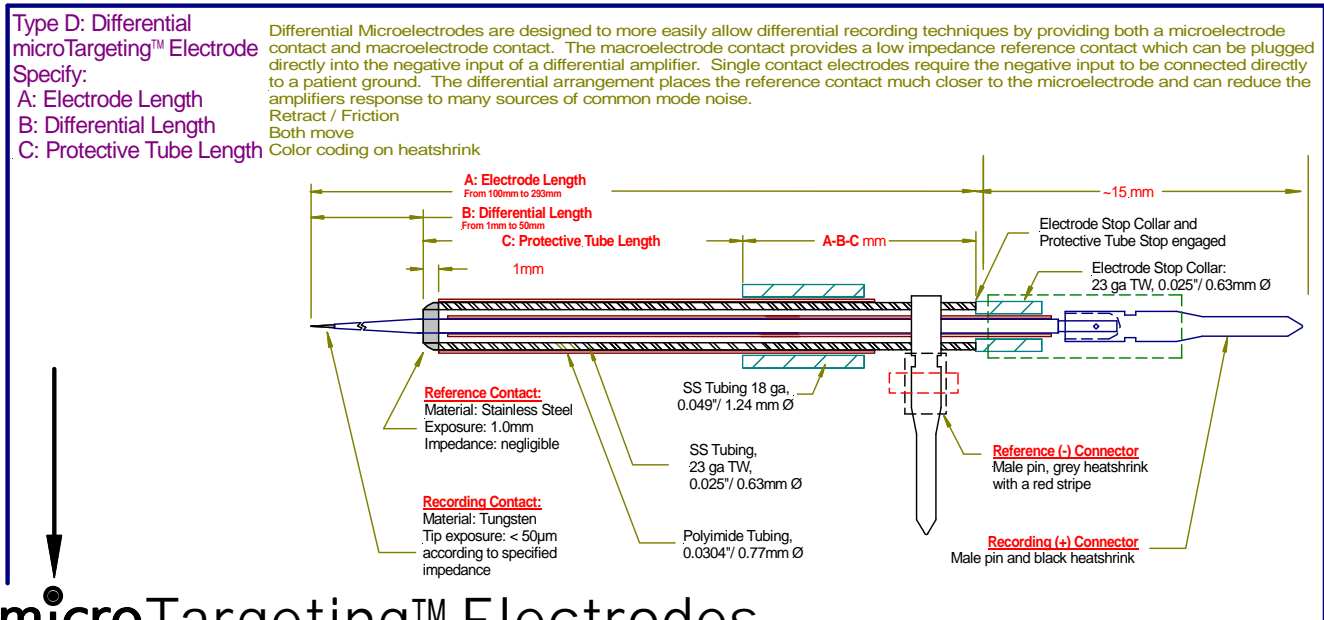
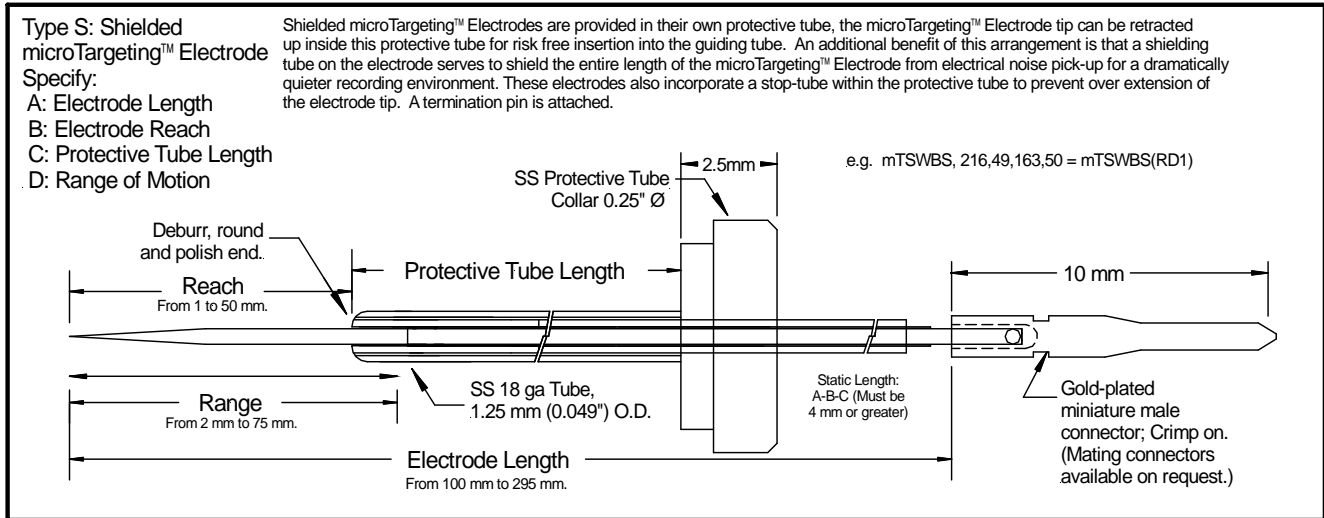
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02/04/29



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