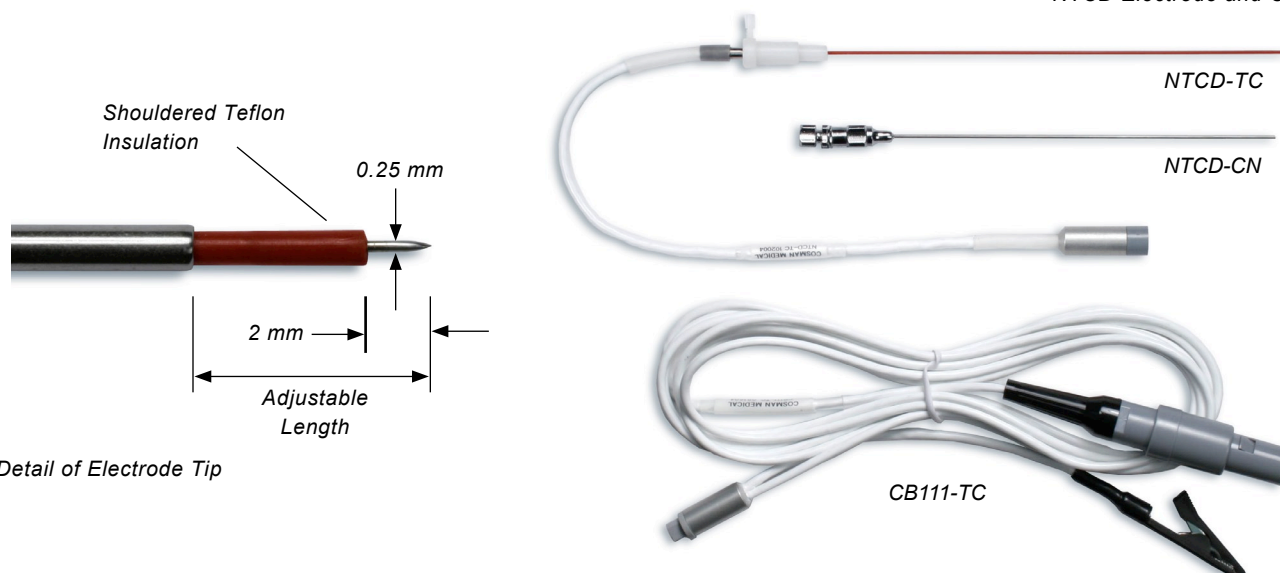


NTCD Electrode and Cannula



Detail of Electrode Tip

The Cosman NTCD Kit is used for RF lesion-making in the dorsal root entry zone of the spinal cord. It was designed by Dr. Blaine S. Nashold, JR., M.D. and Dr. Eric R. Cosman, Ph.D. Applications of the NTCD Kit include procedures for the relief of deafferentation pain from avulsion of the spinal roots of the brachial or sacral plexus, paraplegia pain, post-herpetic neuralgia, and intractable pain of peripheral origin associated with phantom limbs, post-thoracotomy, and severe peripheral neuropathies.

The NTCD-TC Electrode is designed to be light-weight for easy-handling without drag from the leader-cable. It has a sharpened tip that is 0.25 mm in diameter and 2.0 mm in length, and it has a built-in thermocouple (TC) temperature sensor in its tip for accurate, fast-acting control of the RF lesion process. The Electrode's

insulation has a shoulder adjacent to the exposed tip so the surgeon can visualize the penetration of the tip in the spinal cord up to the shoulder and so that the tip will not drift more than 2 mm into the cord. The NTCD-CN Cannula is initially passed over the Electrode for rigid hand-holding. The NTCD-SC Sizing Clamp, which comes with the Electrode, enables adjustability of the tip beyond the Cannula's square end. The CB111-TC Cable connects the Electrode to the Cosman RFG -1A or RFG-1B RF lesion Generator.



NTCD Kit

### NTCD Kit Components

- NTCD-TC**, TC Electrode (comes with **NTCD-SC** Sizing Clamp);
- NTCD-CN**, Cannula (with Stylet);
- CB111-TC**, TC Cable with alligator clip reference connection.
- NTCD-CASE**, Case for storage and sterilization\*.

### NTCD-R Kit

Same as the NTCD Kit but with the C111-TC Cable for the Radionics RFG-3C or RFG-3C Plus RF Lesion Generators (instead of the CB111-TC).

\* The NTCD Kit can be flash-autoclaved or ETO sterilized.