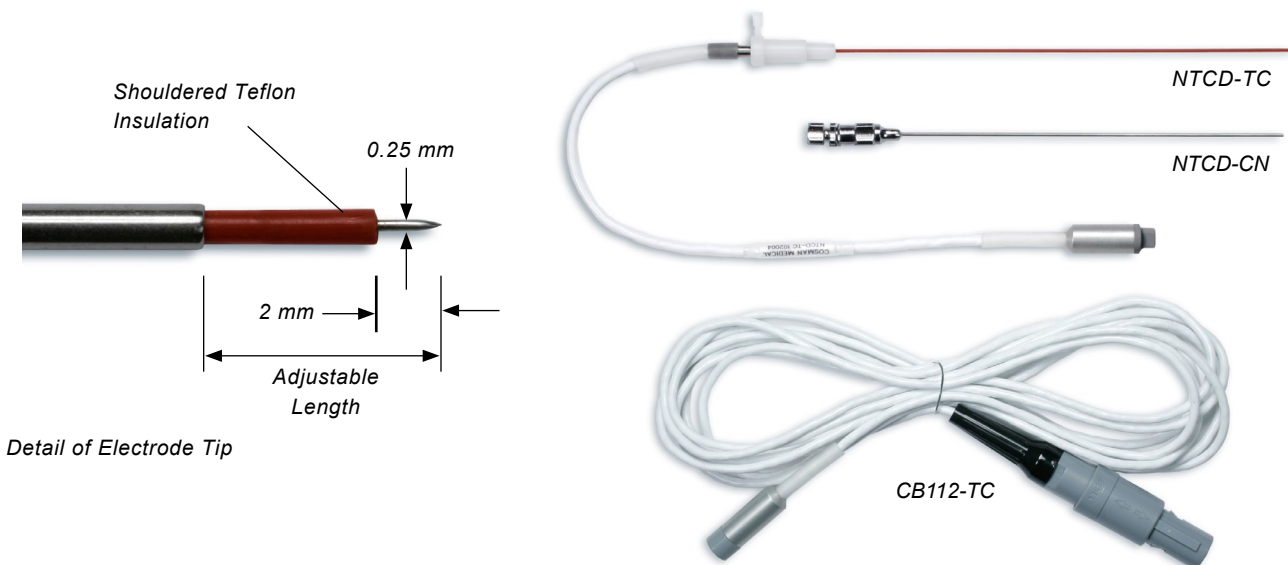


NTCD Electrode and Cannula



Detail of Electrode Tip

The Cosman NTCD Kit is indicated for use for RF heat lesion making for the treatment of pain and functional neurological disorders.

The NTCD Kit was designed by Dr. Blaine S. Nashold, MD and Dr. Eric R. Cosman, PhD.* It contains an NTCD-TC Electrode designed to be light-weight for easy-handling without drag from the leader-wire. It has a sharpened tip that is 0.25 mm in diameter and 2.0 mm in length. The Electrode has a built-in thermocouple (TC) temperature sensor in its tip for fast-responding monitoring of the RF lesion process. The Electrode's insulation has a shoulder adjacent to the exposed tip so the surgeon can visualize under the microscope 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 passed over the Electrode

for rigid handholding. The NTCD-SC Sizing Clamp, which comes with the Electrode, enables adjustability of the tip beyond the Cannula's square end. The CB112-TC Cable connects the Electrode to the Cosman RF Generators.

NTCD Kit Components

- NTCD-TC**, TC Electrode with NTCD-SC Sizing Clamp;
- NTCD-CN**, Cannula with NTCD-SS Solid Stylet;
- CB112-TC**, TC Cable, 8-foot;
- NTCD-CASE**, Case for storage and sterilization.

NTCD-R Kit

Same as the NTCD Kit but with the C112-TC Cable (instead of the CB112-TC Cable) for connection to Radionics RFG-3C or RFG-3C Plus RF Generators.



NTCD Kit

* Cosman ER, Nashold BS, Ovelman-Levitt. Theoretical aspects of radiofrequency lesions in the dorsal root entry zone. *Neurosurgery* 1984; 15: 945-950.