Technical Specifications

REF P783829

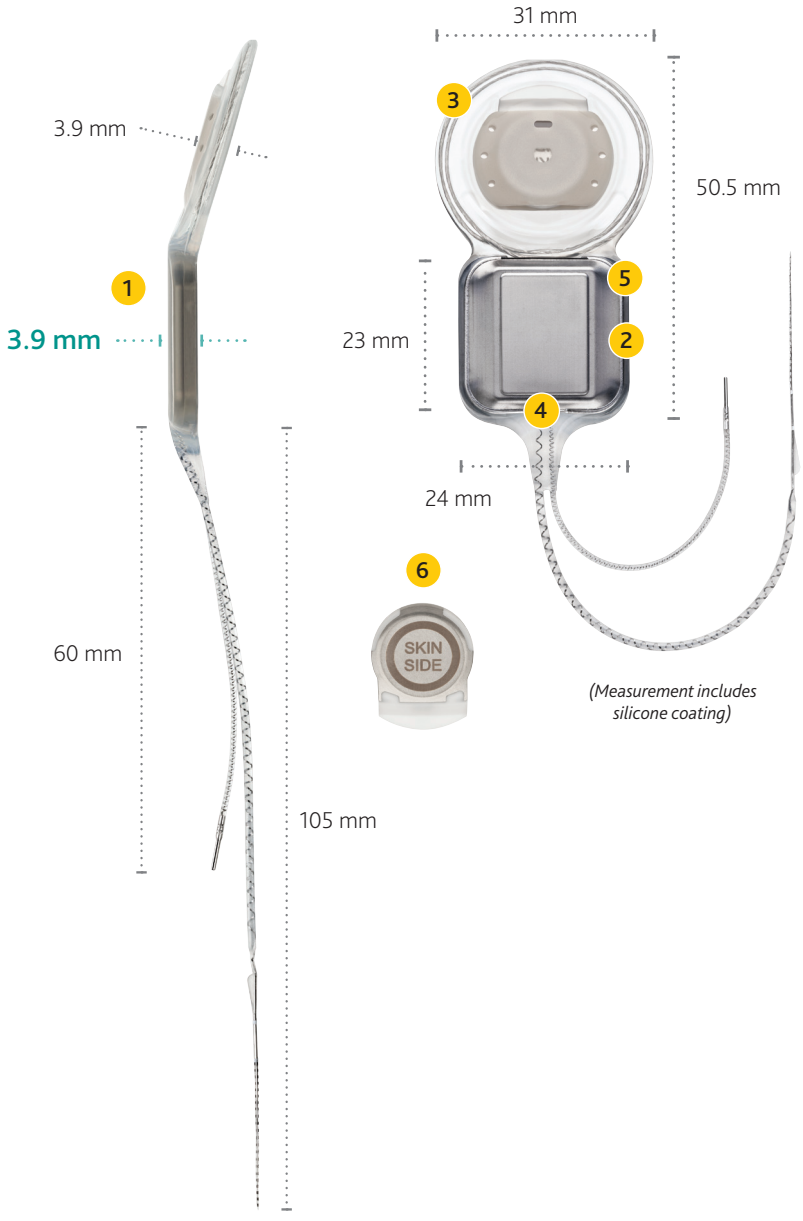
Cochlear™ Nucleus® Profile™ Plus with Slim Straight Electrode (CI622)

MRI at 1.5T and 3.0T with Magnet in Place

1. Thin implant body that provides a natural and low-profile appearance designed to minimize need for drilling.[1]
2. Titanium casing, for impact resistance.
3. Implant coil, enabling telemetry.
4. Symmetrical, side by side exit leads from main casing.
5. Smooth external geometry to minimize biofilm formation and reduce risk of infection.[2]
6. Removable magnet to reduce artifact, if required. Implant is approved for 1.5T and 3.0T with magnet in place.[3]

   Circle on magnet indicates the side that should be away from the bone.

   Sterilized replacement magnet (P782485) and non-magnetic cassette (P782484) are available from Cochlear.



Weight	9.2 g including electrode array.
Impact Resistance	Resistant against external impact up to 2.5 joules.[4]

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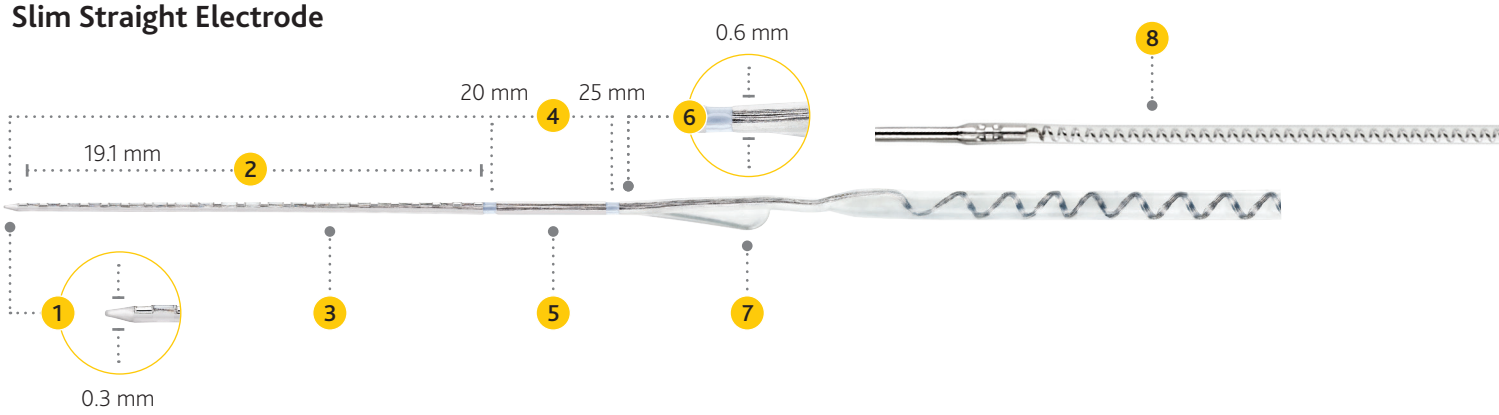
Hear now. And always

Cochlear®

Slim Straight Electrode



1. Softip™ measuring 0.3 mm diameter at apical end, proven to minimize insertion trauma.[5]
2. 22 half-banded platinum electrodes delivering the greatest number of spectral channels over 19.1 mm active length.
3. Intracochlear electrode, smooth lateral surface.
4. Two white markers indicating insertion depth ranged at 20 mm and 25 mm.
5. Basal support enabling a smooth, single motion insertion for ease of use and to minimize insertion trauma.
6. Basal diameter at 0.6 mm.
7. Handle and optimized lead angle for electrode orientation and ease of surgical handling.
8. Two extracochlear electrodes (one on the receiver/stimulator and one on the extracochlear electrode lead) designed to provide individualized stimulation and mapping.

✔ The Slim Straight Electrode is indicated for round window, extended round window and cochleostomy surgical approaches.

Custom Design Microelectric Platform

Power Efficient

- Stimulus amplitude range: 0 to 1.75 mA.
- Stimulation rates up to 31.5 kHz.

Implant Identification

- Implant ID allows the sound processor to uniquely identify and stimulate the intended implants.

Stimulation Modes

- Monopolar, bipolar and common ground stimulation modes using biphasic current pulses, designed for flexible programming options.

Telemetry Capability

- Ultra-low-noise floor (~1 µV), enabling advanced AutoNRT® telemetry capabilities.
- Includes fully integrated Electrophysiology telemetry modes - NRT®, AutoNRT, ESRT, ABR, CEP and intraoperative NRT.

1. Compared to all currently available receiver stimulators available from Cochlear and other cochlear implant manufacturers. Based on published device specification information.
2. James G A, Boegli L, Hancock J, Bowersock L, Parker A, Kinney B M, Bacterial Adhesion and Biofilm Formation on Textured Breast Implant Shell Materials, Aesth Plast Surg, October 2018; https://doi.org/10.1007/s00266-018-1234-7
3. MRI compatibility may vary by country depending on regulatory approvals in each country. Please check the MRI guidance provided in your country by contacting your local Cochlear representative or clinic before proceeding with an MRI scan.
4. EN 45502-2-3 Active implantable medical devices - Part 2-3: Particular requirements for cochlear and auditory brainstem implant systems.
5. Roland J T, A model for cochlear implant electrode insertion and force evaluation: Results with a new electrode design and insertion technique, Laryngoscope, vol. 115, pp. 1325-1339, 2005.

Cochlear®