

Cochlear™ Nucleus® Profile with Contour Advance® Electrode (CI512)

Cochlear proudly presents the Nucleus® Profile with Contour Advance® Electrode (CI512).

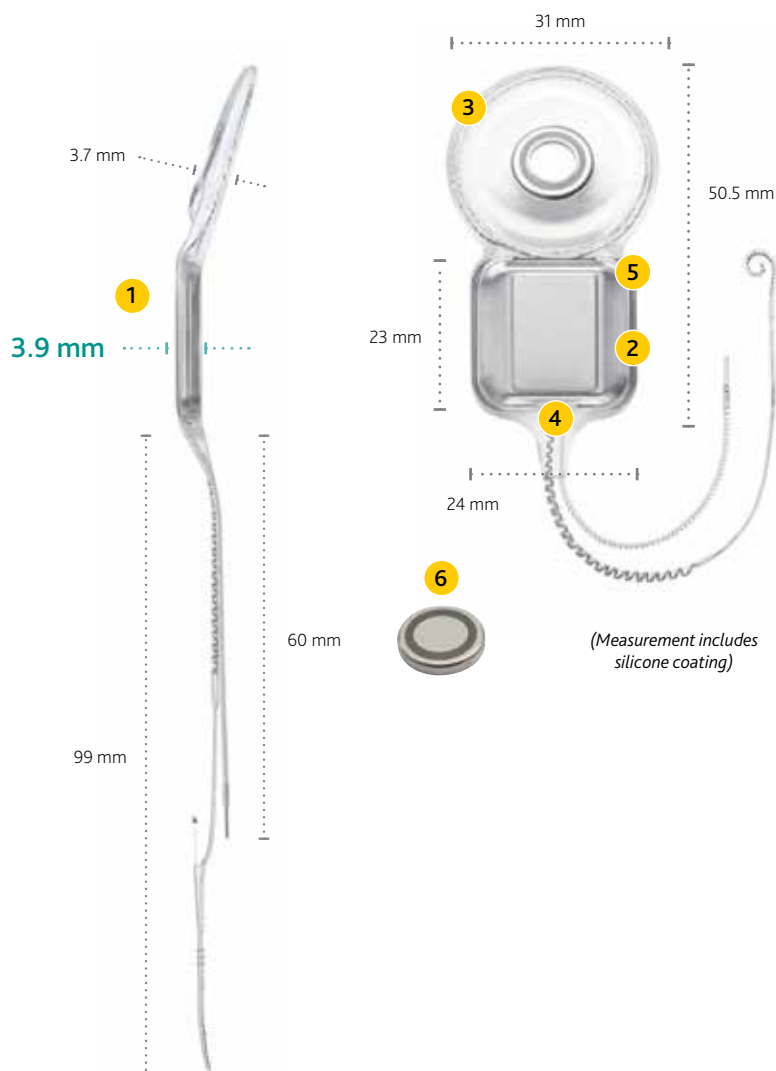
Built on over 30 years of experience and developed in close collaboration with the world's leading surgeons, the Profile Series is the thinnest cochlear implant platform. With a streamlined design, the Profile Series is easy to implant and gives your patient the most discreet appearance. Combined with Cochlear's unique pre-curved perimodiolar electrode, this is the ideal implant for maximising hearing performance.

THINNEST RECEIVER/StIMULATOR

- 1 The thinnest implant body with no pedestal, designed to minimise bone excavation and skin protrusion.
- 2 Titanium casing, for high impact resistance.
- 3 Implant coil, enabling telemetry.
- 4 Symmetrical, side by side exit leads from main casing, for easier surgery, same procedure for left and right ear.
- 5 Smooth external geometry to minimise biofilm formation and reduce risk of infection.
- 6 Removable magnet for MRI safety and minimising image distortion. MRI conditional at 1.5 Tesla with magnet in place and up to 3.0 Tesla with magnet removed.¹

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

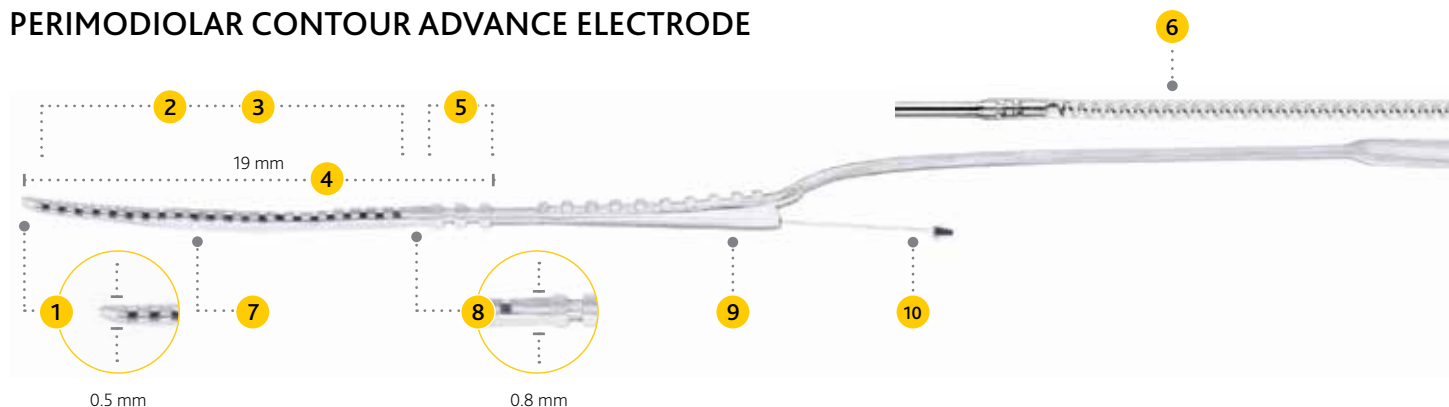
Sterilised replacement magnet (Z179608) and non-magnetic plug (Z146624) to assist MRI procedures available from Cochlear.



Weight 8.6 g including electrode array.

Impact Resistant against external impact up to 2.5 joules.²

PERIMODIOLAR CONTOUR ADVANCE ELECTRODE



- 1 Softip™ measuring 0.5 mm diameter at apical end, proven to minimise insertion trauma.
- 2 22 half-banded platinum electrodes arranged in non-uniform spacing from 0.4 to 0.8 mm providing focused stimulation to the spiral ganglion cell region over 14.25 mm active length.
- 3 Pre-curved design for perimodiolar placement, reduced spread of excitation and maximises hearing performance.
- 4 19 mm intracochlear length providing optimal hearing zone coverage.
- 5 3 silicone ribs to indicate insertion depth.
- 6 Two extracochlear electrodes (one on the receiver/stimulator and one on the extracochlear electrode lead) designed to deliver a more individualised stimulation and better mapping.
- 7 White marker to facilitate Advance Off-Stylet® (AOS™) insertion and indicates insertion depth when the tip is close to the lateral wall of the cochlea.
- 8 Basal diameter at 0.8 mm.
- 9 Handle and optimised lead angle for electrode orientation and ease of surgical handling.
- 10 Platinum stylet holds the electrode straight for insertion with AOS surgical technique.

☒ The Contour Advance Electrode is suitable for extended round window or cochleostomy surgeries.

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 MRI compatibility varies 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. Magnet must be removed before all MRI procedures in the USA.

2 EN 45502-2-3 Active implantable medical devices - Part 2-3: Particular requirements for cochlear and auditory brainstem implant systems.

Specifications are nominal and accurate at the time of printing, subject to change without notification.

Cochlear Ltd (ABN 96 002 618 073) 1 University Avenue, Macquarie University, NSW 2109, Australia Tel: +61 2 9428 6555 Fax: +61 2 9428 6352
Cochlear Ltd (ABN 96 002 618 073) 14 Mars Road, Lane Cove, NSW 2066, Australia Tel: +61 2 9428 6555 Fax: +61 2 9428 6352
Cochlear Americas 13059 E Peakview Avenue, Centennial, CO 80111, USA Tel: +1 303 790 9010 Fax: +1 303 792 9025
Cochlear Deutschland GmbH & Co. KG Karl-Wiechert-Allee 76A, 30625 Hannover, Germany Tel: +49 511 542 770 Fax: +49 511 542 7770
www.cochlear.com

Please read the instructions for use provided with each device prior to use.

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