

CONCERTO

World's Smallest & Lightest
Titanium Implant



Key Features

25% thinner than the SONATA titanium implant with the same footprint.

Further **reduced weight**, now 7.6 g.

Designed for **minimally invasive surgical techniques**.

The ideal choice for **young children**.

Largest **variety of electrode arrays** for every cochlear anatomy. Featuring the wave-shaped wire design, MED-EL electrodes are the **softest** and most **flexible** for atraumatic insertion.

Integrated reference electrodes for reduced risk and shorter surgery time – no need for surgical placement of a reference electrode.

Featuring sophisticated **I¹⁰⁰ electronics** capable of parallel processing at high rates of stimulation.

Supports **250 spectral bands** for finer sound resolution.

The **CONCERTO PIN** housing variant is designed for additional lateral and rotational fixation on the skull. Available both with and without pins allowing surgeons to choose their preferred implant according to the patient's needs.



Actual Size



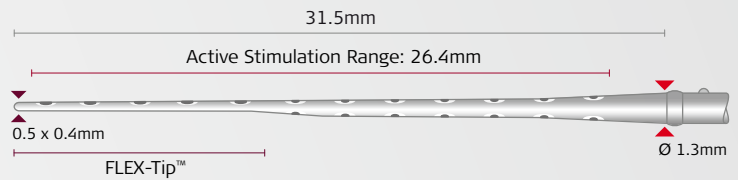
The CONCERTO is part of the MAESTRO Cochlear Implant System featuring:

- The world's thinnest and lightest audio processor, the OPUS 2.
- Automatic Sound Management (ASM) and FineHearing Technology.
- MAESTRO System Software 4.0 supports more features and ensures efficient fitting.

Electrode Arrays

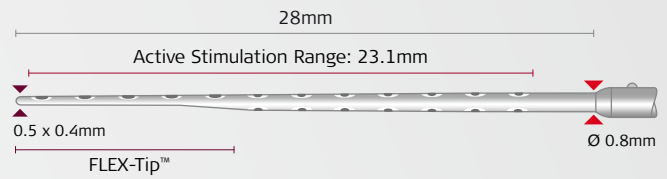
FLEX^{SOFT}

12 stimulation channels 19 electrode contacts
 Contact spacing: 2.4 mm Contact extent: 26.4 mm



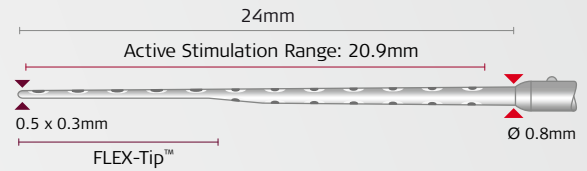
FLEX²⁸

12 stimulation channels 19 electrode contacts
 Contact spacing: 2.1 mm Contact extent: 26.1mm



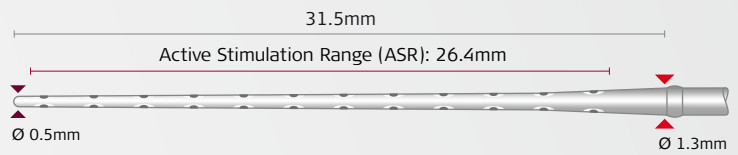
FLEX²⁴

12 stimulation channels 19 electrode contacts
 Contact spacing: 1.9 mm Contact extent: 20.9 mm



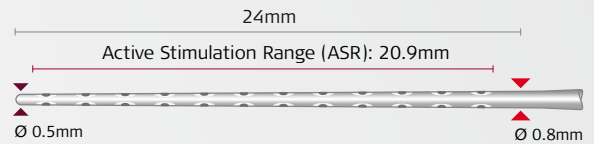
Standard

12 stimulation channels 24 electrode contacts
 Contact spacing: 2.4 mm Contact extent: 26.4 mm



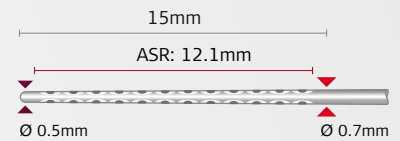
Medium

12 stimulation channels 24 electrode contacts
 Contact spacing: 1.9 mm Contact extent: 20.9 mm



Compressed

12 stimulation channels 24 electrode contacts
 Contact spacing: 1.1 mm Contact extent: 12.1 mm



Softest, Most Atraumatic Electrode Arrays
 Featuring Wave-Shaped Wires

Technical Data

CONCERTO Cochlear Implant for the MAESTRO™ CI System

Stimulation Features

- Sequential and parallel stimulation
- Maximum pulse rate: 50,704 pulses per second
- Pulse width per phase: 2.08–425.0 $\mu\text{s/ph}$
- Time resolution (nominal values): 1.67 μs
- Overall amplitude range: 0–1200 cu*

Pulse Shapes

- Biphasic, symmetric triphasic and triphasic precision pulses

Comprehensive Diagnostic Toolkit

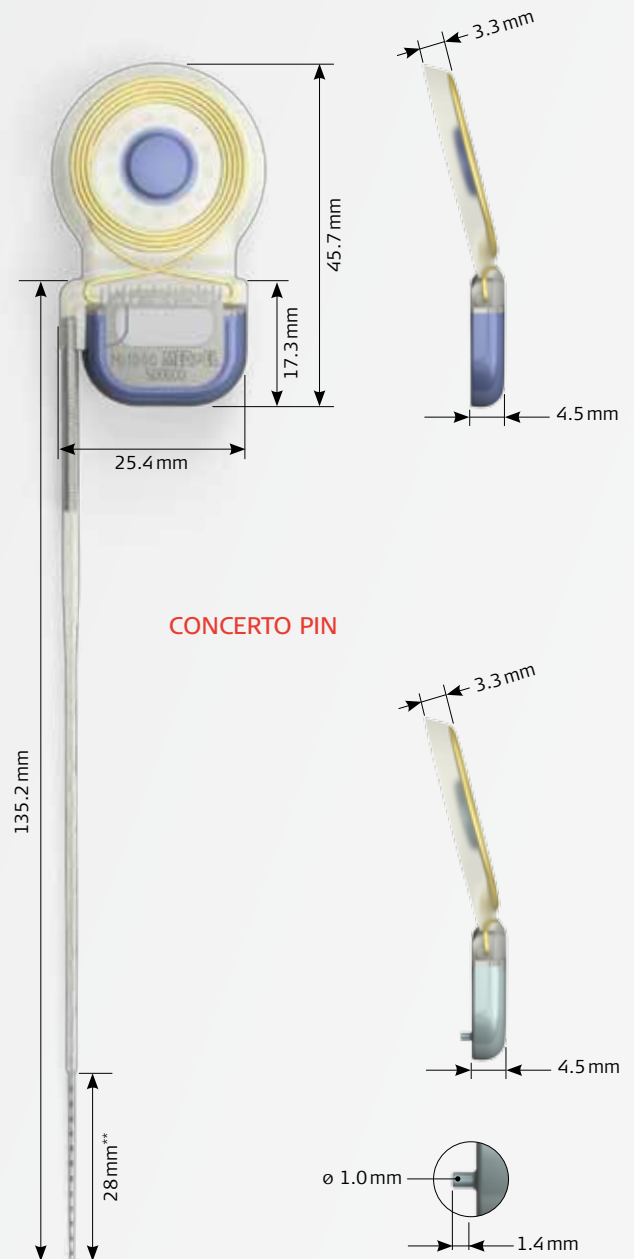
- Status Telemetry
- Impedance and Field Telemetry (IFT)
- Auditory Nerve Response Telemetry (ART™)
- Electrically Evoked Auditory Brainstem Response (EABR)
- Electrically Evoked Stapedius Reflex Threshold (ESRT)

Safety Features

- Output Capacitors for Each Channel
- Unique Implant ID (IRIS)

Housing Design

- Length: 45.7 mm
- Length at stimulator: 17.3 mm
- Width at stimulator: 25.4 mm
- Width at coil: 29.0 mm
- Thickness at stimulator: 4.5 mm
- Thickness at coil: 3.3 mm
- Pin length: 1.4 mm
- Pin diameter: 1.0 mm
- Weight: 7.6 g



* Typical value

** With FLEX[®] electrode array