## MED<sup>©</sup>EL

NEW

### FLEX Portfolio The Softest, Most Flexible Electrode Arrays

# Introducing FLEX<sup>28</sup>





### A FLEX Electrode for Every Cochlear Duct Length (CDL)

#### For a Variety of Cochlear Duct Lengths (CDLs)<sup>1,3</sup>

Cochleae may differ significantly in size and shape from one another. Individual cochlear duct lengths (CDL) may vary over a very large range. *Refer to the graph at right.* 



#### **FLEX Electrode Selection**

From the FLEX electrode portfolio, surgeons can select the electrode array that optimally suits the individual anatomy of the patient. *Refer to the graph at right.* 

#### Complete Cochlear Coverage (CCC)<sup>2,5</sup>

Stimulating the entire cochlea from the base to the apex provides for best quality hearing.

CCC is achieved by inserting a particularly long electrode array to stimulate the entire cochlear extent. Alternatively, in cases of partial deafness, CCC can be achieved by combined electric and acoustic stimulation which takes advantage of the patient's natural residual hearing. The range of active stimulation is crucial because it provides the implant recipient with a complete representation of sound in the broadest possible frequency range.





"Straight, thin, and flexible free-fitting electrodes demonstrated to best fulfill all criteria for atraumatic CI surgery."" Ensuring a Hearing Future™

## The New FLEX<sup>28</sup> Designed for Atraumatic Implantation Providing Superior Hearing Performance<sup>478</sup>

The new FLEX<sup>28</sup> is the optimal electrode array for 96% of cochlear anatomic conditions.

Easy to insert with minimal drilling thanks to a small 0.5mm diameter at the tip and 0.8mm diameter at the basal end, the FLEX<sup>28</sup> is the ideal choice for cochlear insertion via cochleostomy or the round window.

The exceptionally long 23.1mm active stimulation range provides tonotopic coverage from the base to the apex for best quality hearing.



## A Solution for Every Cochlear Anatomy

### **FLEX**SOFT

A 31mm electrode array for Complete Cochlear Coverage (CCC) providing stimulation of the entire available range of frequencies from the base to the apex. Designed for long cochlear ducts.





Features an electrode array length that is suitable for 96% of all normal cochlear duct lengths. FLEX<sup>28</sup> is designed for best possible hearing performance while protecting the delicate neural structures during insertion.



#### CDL < 32

### FLEX<sup>24</sup>

A shorter electrode variant that may be suitable for candidates with partial deafness as well as special surgical needs or preferences. CCC can be achieved through combined electric and acoustic stimulation by making use of the recipient's natural residual hearing.

FLEX<sup>24</sup> is identical to the previously named FLEX<sup>EAS</sup> electrode array.



### CDL < 2

### FLEX<sup>20</sup>

The shortest FLEX electrode array may be used in cases of partial deafness or for other specific needs or surgical preferences. CCC can be achieved through combined electric and acoustic stimulation by making use of the recipient's natural residual hearing.



CDL < 24

The FLEX<sup>20</sup> is under development.



## Facts at a Glance

	LENGTH OF ARRAY (mm)	ACTIVE STIMULATION RANGE (mm)	CONTACT SPACING (mm)	Ø AT MARKER (mm)	NO. OF CONTACTS
FLEXSOFT	31.5	26.4	2.4	1.3	19
FLEX <sup>28</sup>	28	23.1	2.1	0.8	19
FLEX <sup>24</sup>	24	20.9	1.9	0.8	19
FLEX <sup>20</sup>	20	16.5	1.5	0.8	19

## **CONCERTO** Cochlear Implant

CONCERTO, the implantable component of the MAESTRO CI System, is designed for best performance<sup>6</sup> and features particularly small dimensions as well as flexible electrode arrays designed for atraumatic insertion.

4.5 mm

### The MAESTRO CI System

- Performance

165°

3 3 mm

- Ease of use
- Reliablity
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